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# INSECTICIDE REPORT for 1956

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THE BULLETIN  
of the  
**North Carolina Department of Agriculture**  
L. Y. BALLENTINE, *Commissioner*

**Number 148**

**June, 1957**



North Carolina  
**INSECTICIDE REPORT**

for

**January 1 - December 31, 1956**



**THE BULLETIN**  
of the  
**North Carolina Department of Agriculture**  
**Raleigh, N. C.**

L. Y. BALLENTINE, *Commissioner*

JOHN L. REITZEL, *Assistant Commissioner*

E. W. CONSTABLE, *State Chemist*

**Number 148**

**June, 1957**

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## Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons law (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S., Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department, for the calendar year 1956. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1956.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 5 and 6. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to man-

ufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Delwin P. Johnson, Henry W. Barnes, Jr., Mrs. Muriel Weathers, Chemists; Miss Pat Barefoot, Miss Mary Melvin, Secretaries; George A. Brown, Jr., J. W. Davis, Lindsey Ennis, H. C. McPhail, Inspectors; Vernon Williams, Laboratory Helper.

## Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.	Administrative Officer
1. The name and address of the guarantor.	Information Required to Appear on Package Labels
2. The brand name or trademark.	
3. The net weight or measure.	
4. A guaranteed analysis statement showing:	
a. The name and percentage of each active ingredient.	
b. The total percentage of inert ingredients.	
5. Instructions for use, adequate for the protection of the public.	
6. A warning or caution statement adequate to prevent injury.	
7. For economic poisons highly toxic to man:	
a. The skull and crossbones.	
b. The word "Poison" in red, on distinctly contrasting background.	
c. An antidote for the poison.	
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.	

### Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.	General Requirements
2. No false or misleading statement, design or other representation is permissible.	
3. Imitations are not permitted.	
4. Labeling may not refer to registration.	
5. Labeling shall be legible and understandable.	
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.	
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.	

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

Registration	Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.
	Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.
Inspection Tax	An annual inspection tax of \$10.00 for each brand and each grade is required.
Method of Paying	Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.
Refusal or Cancellation of Registration	Registration is subject to refusal or cancellation for cause and upon hearing.
Stop-Sale Orders	Goods not measuring up to requirements are subject to Stop-Sale Orders.
Short Weight	Short weight, in addition to above, is subject to penalty.

### **Exempt From Penalties of Law Are:**

Exemptions

1. Carriers engaged in legal transporting.
2. Public official while performing official duties.
3. Manufacturers and shippers of products properly identified for experimental use only.
4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

**NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.**

## Pesticide-Fertilizer Mixtures

Regulations under the fertilizer law now permit certain insecticides to be mixed with fertilizers. These are: Technical chlordane, aldrin, dieldrin, heptachlor, toxaphene and DDT. There is continued interest in these mixtures for combatting soil-borne pests, and a number of brands have been registered for sale.

Experience with such mixtures is slowly developing. The practical and economic advantages of putting both pesticides and fertilizer into the soil in a single operation are obvious. There are, however, certain disadvantages and dangers which must be taken into account, such as restricted applicability, the possibility of misuse, incompatibility and short life of some pesticides when mixed with fertilizers, the danger of toxic levels of pesticides being built up in the soil, development of off-flavor and bad odors, particularly in root crops, and the danger of translocation of poisons from soils to plants, then to animals and to man.

It is obvious that the recommendations for use of pesticide-fertilizer mixtures in the soil pose many critical problems. These should not function to restrict sound progress. However, they do dictate a conservative policy, subject to expansion or modification from time to time as additional basic facts are available. The policy which has been followed and the line of thinking on which it is based are indicated in the commitments which follow.

Recommendation by the N. C. Agricultural Experiment Station, Raleigh, N. C., December 14, 1948:

"Because of the lack of sufficient information on these problems and in order to prevent possible damage or loss of money to either the farmer or the fertilizer producer, it is recommended that the Commissioner of Agriculture should not accept for registration and subsequent sales any mixture of insecticides and fertilizer. Experimental use of such mixtures under proper supervision and direction is to be encouraged so that information may be obtained to solve the problems involved in the use of such mixtures."

Resolution by the Association of Economic Poisons Control Officials, Annual Conference, Washington, D. C., October 6, 1951; endorsed by the Experiment Station Section, Association of Land Grant Colleges and Universities, Houston, Texas, Meeting, November 13, 1951:

"In view of the immediate and possible long lasting effects of the application or misapplication of pesticides, be it resolved, that the Economic Poisons Control Officials do not register, permit the sale or distribution of pesticide-fertilizer mixtures, for field crops or horticultural use unless such mixtures have been formally approved by the officials of the Agricultural Experiment Station or other officials vested with such responsibility by law in their State."

Letter to fertilizer dealers, by L. Y. Ballentine, Commissioner of Agriculture, May 16, 1950:

"To Fertilizer Manufacturers and Dealers selling fertilizer in North Carolina

"In order that the future of the peanut industry in North Carolina not be jeopardized by improper insect control practices, your attention is called to the following:

- "1. Experiments conducted by the North Carolina Agricultural Experiment Station have shown that a disagreeable taste and odor have resulted from the use of Benzene Hexachloride to control insects attacking peanuts.
- "2. The residue of Benzene Hexachloride used on cotton for boll weevil control may be sufficient to produce unfavorable effects on peanuts grown in the rotation.
- "3. Representatives of the North Carolina Agricultural Experiment Station, Extension Service, and State Department of Agriculture have recently conferred on this subject. The group considers Benzene Hexachloride, the technical grade or the purified form known as lindane, unsafe for insecticidal treatment for peanuts. This is in agreement with conclusions reached by a similar group from Virginia who met a few days ago. It is also in accord with a recent resolution passed by the Virginia-Carolina Peanut Association.
- "4. On cotton grown in rotation with peanuts, recommended materials other than BHC should be used.
- "5. As new information on this program is developed, the recommendations may be modified. We will keep you advised of any significant findings on this important subject.

"We solicit the cooperation of the fertilizer industry on this important problem affecting our peanut growers."

## REGULATIONS

(From Chapter VIII of Rules, Regulations, Definitions and Standards of the North Carolina Department of Agriculture)

**§8-36.1. Insecticides In Fertilizers.** The inclusion of technical chlordane, aldrin, dieldrin, heptachlor or toxaphene in fertilizers offered for sale in North Carolina is permitted under the following conditions:

(a) All manufacturers, formulating and offering for sale in North Carolina fertilizers containing the insecticides technical chlordane, aldrin, dieldrin, heptachlor or toxaphene, shall register such brands or mixtures with the North Carolina Department of Agriculture.

(b) Each bag of fertilizer must bear a Red tag, size  $3\frac{1}{8}$  inches by  $6\frac{1}{4}$  inches, with the following information printed thereon:

**CAUTION**

This fertilizer contains.....pounds of (name of insecticide) per 100 pounds of fertilizer.

**NOTICE—IMPORTANT—NOTICE**

Experiments and surveys have shown that this insecticide when applied with fertilizer at planting time may give some control of wireworms and/or southern corn rootworms and/or white fringed beetle. It does not effectively control the corn billbug. In experimental work insecticide-fertilizer mixtures have been applied immediately after mixing. The effect of the combination on the insecticide or on the fertilizer components, if left to stand, is not known.

Odor, off flavor, stunting of crops and other damage may result from the use of organic insecticides in this manner.

**§8-36.2 DDT in Fertilizers.**

(1) All manufacturers formulating and offering for sale in North Carolina fertilizers containing the insecticide DDT shall register such brands or mixtures with the North Carolina Department of Agriculture.

(2) Each bag of fertilizer containing DDT must bear a RED tag, size  $3\frac{1}{8} \times 6\frac{1}{4}$  inches, with the following information printed thereon:

**CAUTION**

This fertilizer contains.....pounds of technical DDT per 100 pounds of fertilizer.

Fertilizer mixtures containing not more than  $\frac{1}{2}$  or 1 pound of technical DDT per 100 pounds of fertilizer are recommended for use only where the white fringed beetle is present and only on specific advice of a Federal or State entomologist. DDT or fertilizer containing DDT should not be used on the soil after a maximum of 15 pounds of DDT per acre has been applied.

The North Carolina Agricultural Experiment Station makes no general recommendation for the inclusion of insecticides in fertilizers. Indiscriminate use of certain insecticides may cause stunting of crops, off-flavors and odors, or other damage.

**(Adopted June 20, 1951; Amended June 17, 1952 and June 22, 1953.)**

**(Authority: G. S. 106-50.15.)**

## Economic Poisons Registrants, 1956

**ACME FERTILIZER COMPANY**  
Box 330  
Wilmington, North Carolina

**ACME QUALITY PAINTS, INC.**  
8250 St. Aubin Avenue  
Detroit 11, Michigan

**ADCO, INCORPORATED**  
902 W. Main Street  
Sedalia, Missouri

**AERO-SANITATION COMPANY**  
325 W. Pacific Avenue  
St. Louis 19, Missouri

**AGRICULTURAL SPECIALTIES**  
10219 Denton Drive  
Dallas 20, Texas

**AIRKEM, INCORPORATED**  
241 East 44th Street  
New York, New York

**AIROSOL COMPANY, INC.**  
525 N. 11th Street  
Neodesha, Kansas

**ALCATRAZ COMPANY, INC., THE**  
1900 Ellen Road  
Box 5146  
Richmond 20, Virginia

**ALFORD HOME PRODUCTS**  
Box 595  
Middlesex, North Carolina

**ALLEN-CROWL COMPANY**  
1559 Allentown Road  
P. O. Box 627  
Lima, Ohio

**ALLIED CHEMICAL & DYE CORP.**  
Barrett Division  
40 Rector Street  
New York 6, New York

**ALLIED CHEMICAL & DYE CORP.**  
General Chemical Division  
40 Rector Street  
New York 6, New York

**ALLIED CHEMICAL & DYE CORP.**  
Solvay Process Division  
Box 271  
Syracuse 1, New York

**ALLIED DRUG PRODUCTS CO.**  
16th and Pierce Streets  
Chattanooga 1, Tennessee

**AMERICAN AGRICULTURAL  
CHEMICAL COMPANY, THE**  
50 Church Street  
New York 7, New York

**AMERICAN CHEMICAL COMPANY,  
INC.**  
726 First Street, S.E.  
Roanoke, Virginia

**AMERICAN CHEMICAL PAINT CO.**  
Ambler, Pennsylvania

**AMERICAN CYANAMID COMPANY**  
30 Rockefeller Plaza  
New York 20, New York

**AMERICAN OIL COMPANY**  
Baltimore and South Streets  
Baltimore 2, Maryland

**AMERICAN SCIENTIFIC LABORA-  
TORIES, INC.**  
Box 232  
Madison 1, Wisconsin

**AMERICAN LACE PAPER COMPANY**  
4425 N. Port Washington Road  
Milwaukee 12, Wisconsin

**ANDERSON & SPILMAN**  
Box 255  
Danville, Kentucky

**ANTARA CHEMICALS**  
(A Sales Division of General Aniline  
& Film Corp.)  
435 Hudson Street  
New York 14, New York

**A-PENN OIL COMPANY**  
P. O. Box 191  
Butler, Pennsylvania

**APEX CHEMICAL COMPANY**  
Box 146  
Apex, North Carolina

**ASSOCIATED SEED GROWERS, INC.**  
15 Main Street  
Cambridge, New York

**ATHENS INSECTICIDE CO., INC.**  
N. Jackson Street  
Athens, Tennessee

**ATLA CHEMICAL COMPANY, INC.**  
Box 1761  
415 South Spring Street  
Greensboro, North Carolina

**ATLANTIC & PACIFIC TEA COM-  
PANY, THE GREAT**  
2024 Thrift Road  
Charlotte, North Carolina

**ATLAS AGRICULTURAL CHEMICALS,  
INC.**  
Box 169  
Waynesboro, Georgia

**ATLAS CHEMICAL CORPORATION**  
Box 169  
Waynesboro, Georgia

**BARKER, MOORE & MEIN COMPANY**  
541 N. Orianna Street  
Philadelphia 23, Pennsylvania

**BAUER & BLACK**  
Division of the Kendall Co.  
309 W. Jackson Blvd.  
Chicago 6, Illinois

**BERK, F. W. & COMPANY, INC.**  
Park Place, East  
Wood Ridge, New Jersey

BERLOU MANUFACTURING CO. 421 Monroe Street Marion, Ohio	CAROLINA CHEMICALS, INC. Box 128 West Columbia, South Carolina
BEST EXTERMINATING SERVICE, INC. Box 631 Durham, North Carolina	CAROLINA FEED STORE 279 East Main Street Gastonia, North Carolina
BLACK PANTHER COMPANY, INC. Box 132 Sanford, North Carolina	CARROLL CHEMICAL CO., THE 2301 Hollins Street Baltimore 23, Maryland
BLUE BALL CHEMICAL COMPANY 2506 Kuhl Avenue Orlando, Florida	CARTER INSECTICIDE & CHEMI- CAL COMPANY, INC. Wallace North Carolina
BLITZ PRODUCTS, INC. 945 West George Street Chicago 14, Illinois	CEDAR HILL FORMULAE CO., THE 234 Steele Street Box 1129 New Britain, Connecticut
BLITZ-FOG COMPANY, THE 407 E. Michigan Street Milwaukee 2, Wisconsin	CENTRAL CHEMICAL CORP. 49 North Jonathan Street Hagerstown, Maryland
BLUE MAGIC COMPANY Wilson, North Carolina	CERASEAL CHEMICAL CORP. P. O. Box 214 Chicago Heights, Illinois
BOHLENDER PLANT CHEMI- CALS, INC. Tipp City Ohio	CHAMBERLAINS EXTERMINATORS I Ryan Street Salisbury, North Carolina
BONIDE CHEMICAL COMPANY 382 North Genesee Street Utica 4, New York	CHAMBERS-GODFREY MANUFAC- TURING COMPANY 302-04 Broadway Martin, Tennessee
BONNIE GREEN PRODUCTS CO. Front and Bainbridge Streets Philadelphia 47, Pennsylvania	CHAPMAN CHEMICAL COMPANY Box 3158 Mallory Station Memphis 9, Tennessee
BOYLE-MIDWAY, INCORPORATED 22 East 40th Street New York 16, New York	CHAPMAN, M. A. & SON Box 691 Canton, North Carolina
BRIDGEPORT BRASS COMPANY 30 Grand Street Bridgeport 2, Connecticut	CHEMAGRO CORPORATION 101 Park Avenue New York 17, New York
C-B DRUG COMPANY 2219 Freedom Drive Charlotte 8, North Carolina	CHEMICAL FORMULATOR, INC. Box 26 Nitro, West Virginia
CALIFORNIA SPRAY-CHEMICAL CORP. Lucas and Ortho Way Richmond, California	CHEMLEY PRODUCTS COMPANY 5744 Western Avenue Chicago 45, Illinois
CAPE FEAR CHEMICALS, INC. Box 543 Elizabethtown, North Carolina	CHEMWAY CORPORATION Fairfield Road Mountain View, New Jersey
CANINE PRODUCTS, INC. 503 E. Franklin Street Richmond, Virginia	CHESTER CHEMICAL CORP. 2732 6th Avenue, South St. Petersburg, Florida
CARAJON CHEMICAL CO., INC. Box 167 Fremont, Michigan	CHIPMAN CHEMICAL CO., INC. Bound Brook New Jersey
CARBOLA CHEMICAL CO., INC. Natural Bridge New York	CLARKE & PROCTOR TURPEN- TINE CO., INC. 317 Worth Street Fayetteville, North Carolina
CARBOLINEUM WOOD PRESERV- ING COMPANY 528 W. Highland Avenue Milwaukee 3, Wisconsin	CLEAN HOME PRODUCTS, INC. 507 North Cardinal Street St. Louis 3, Missouri

CLEARY CORPORATION, W. A.  
P. O. Box 749  
New Brunswick, New Jersey

COASTAL CHEMICAL CORP.  
Box 627  
Greenville, North Carolina

COLGATE-PALMOLIVE COMPANY  
300 Park Avenue  
New York 22, New York

COLONIAL CHEMICAL COMPANY  
6207 Georgia Avenue  
Box 6325  
West Palm Beach, Florida

COLONIAL STORES, INC.  
P. O. Box 1113  
Columbia, South Carolina

COMMON SENSE MANUFACTURING COMPANY, INC.  
1392 Niagara Street  
Buffalo 13, New York

CONNECTICUT CHEMICAL RESEARCH CORPORATION  
706 Bostwick Avenue  
Bridgeport 5, Connecticut

COOK CHEMICAL COMPANY  
2500 Summit Street  
Kansas City, Missouri

COOPER, WILLIAM & NEPHEWS, INC.  
1909 North Clifton Avenue  
Chicago 14, Illinois

CORONA CHEMICAL DIVISION  
Pittsburgh Plate Glass Company  
New Albany Road  
Moorestown, New Jersey

COWLEY, S. L. & SONS MANUFACTURING COMPANY  
708 West McAlester Street  
Hugo, Oklahoma

CRISP, S. A. CANINE COMPANY  
Blackburg  
South Carolina

CRE-O-TOX CHEMICAL PRODUCTS CO.  
2670 Broad Avenue  
Memphis, Tennessee

D & A COMPANY, INC.  
52 Remer Street  
Bridgeport 6, Connecticut

DALY-HERRING COMPANY  
Adkin and University Streets  
Kinston, North Carolina

DARWORTH INCORPORATED  
Cuprinol Division  
24 S. Hopmeadow Street  
Simsbury, Connecticut

DAVIES-YOUNG SOAP COMPANY, THE  
705 Albany Street  
Dayton, Ohio

DAVISON CHEMICAL COMPANY  
Division of W. R. Grace & Co.  
P. O. Box 180  
Wilmington, North Carolina

DAVIS MANUFACTURING COMPANY, INC.  
115 W. Jackson Avenue  
Knoxville, Tennessee

d-CON COMPANY, INC., THE  
1450 Broadway  
New York 18, New York

DE-BUG-ER, INCORPORATED  
1414 E. Hemphill Road  
Flint, Michigan

DE PREE COMPANY, THE  
130 Central Avenue  
Holland, Michigan

DeSOTO CHEMICAL COMPANY, INC.  
North DeSoto Avenue  
Arcadia, Florida

DIAMOND BLACK LEAF COMPANY  
332 N. Queen Street  
Lancaster, Pennsylvania

DILL COMPANY, THE  
Washington Street & McKinley Avenue  
Norristown, Pennsylvania

DIXI CHEMICAL COMPANY  
Box 1711  
Chattanooga, Tennessee

DOLGE COMPANY, C. B.  
Ferry Lane, West  
Westport, Connecticut

DONALDSON COMPANY, INC.  
666 Pelham Boulevard  
St. Paul 14, Minnesota

DOUGLAS CHEMICAL CO., THE  
Box 5012  
Richmond, Virginia

DOUGLAS CHEMICAL COMPANY  
620 East 16th Avenue  
North Kansas City, Missouri

DOW CHEMICAL COMPANY, THE  
Midland  
Michigan

DRUGMASTER, INC.  
4200 North Union Boulevard  
St. Louis 15, Missouri

DUNAWAY CORPORATION JUDSON  
Third and Grove  
Dover, New Hampshire

du PONT de NEMOURS & CO., E. I.  
Wilmington 98  
Delaware

EAGLE PRODUCTS COMPANY  
Box 162  
Chattanooga, Tennessee

ECKERD DRUGS, INC.  
128 North Tryon Street  
Charlotte, North Carolina

ECONOMICS LABORATORY, INC.  
914 Guardian Building  
Saint Paul 1, Minnesota

EDWARDS-COUNCILOR CO., INC.  
121 Colley Avenue  
Norfolk 10, Virginia

ELECTROLUX CORPORATION  
500 Fifth Avenue  
New York 36, New York

EMERY INDUSTRIES, INC. 4200 Carew Tower Cincinnati 2, Ohio	GASTON JOHNSTON CORP. 24-64 45th Street Long Island City 3, New York
ESSO STANDARD OIL COMPANY 15 West 51st Street New York 19, New York	GEIGY AGRICULTURAL CHEMICALS Division of Geigy Chemical Corp. P. O. Box 430 Yonkers, New York
ESTON CHEMICALS Division of American Potash & Chemical Corp. 3100 East 26th Street Los Angeles 23, Calif.	GENERAL INSECTICIDE CO., INC. 752 Herkimer Road Utica, New York
FAESY & BESTHOFF, INC. 325 Spring Street New York 13, New York	GEORGIA-CAROLINA OIL CO. 1403 Sixth Street Box 101 Macon, Georgia
FAIRFIELD CHEMICAL DIVISION Food Machinery & Chemical Corp. Box 1616 Baltimore 3, Maryland	GETEM MANUFACTURING CO., INC. 1261 West 42nd Street Norfolk 8, Virginia
FARM SERVICE COMPANY Highway No. 301 South Box 70 Wilson, North Carolina	GIRARD COMPANY, INC., FELIX 2013 Fourth Avenue, South Minneapolis 4, Minnesota
FARMERS COOPERATIVE EXCHANGE, INC. P. O. Box 1069 Statesville, North Carolina	GLAND-O-LAC COMPANY, THE Box 1178 Omaha 1, Nebraska
FEDERAL CHEMICAL COMPANY, INC. 2701 Winthrop Avenue Indianapolis 5, Indiana	GLIDDEN COMPANY, THE 900 Union Commerce Bldg. Cleveland 2, Ohio
FLORIDA AGRICULTURAL SUPPLY COMPANY 1611 Talleyrand Avenue Jacksonville 1, Florida	GLOBE LABORATORIES 116 Commerce Street Fort Worth 2, Texas
FLORIDA CHEMICAL INDUS- TRIES, INC. Route 1, Box 130-C Gainesville, Florida	GLOVER COMPANY, INC., H. CLAY 60 Hempstead Avenue West Hempstead Long Island, New York
FLY-CORD, INC. P. O. Box 2066 Savannah, Georgia	GLOVER MINERAL PRODUCTS, INC. Kenbridge, Virginia
FOLEY & COMPANY 945 West George Street Chicago 14, Illinois	GOWEN COMPANY, INC., HOWERTON Box 247 Roanoke Rapids, North Carolina
FRANKLIN RESEARCH COMPANY 5134 Lancaster Avenue Philadelphia 31, Pennsylvania	GRAHAM CHEMICAL COMPANY 1407 Battleground Avenue Box 54 Greensboro, North Carolina
CHEMICAL CORP. OF AMERICA Freewax Division P. O. Drawer 509 Tallahassee, Florida	GRANT COMPANY 2735 North Ashland Avenue Chicago 14, Illinois
FRENCH COMPANY, THE R. T. 1 Mustard Street Rochester 9, New York	GRANT LABORATORIES 6020 Adeline Street Oakland 8, California
GALLOWHUR CHEMICAL CORP. North Water Street Ossining, New York	GREENHOUSE SUPPLY COMPANY P. O. Box 135 Bolton, Georgia
GARDEN HOSE SPRAY CO., INC. 7 Upland Road Cambridge 40, Massachusetts	GREEVER'S, INC. Chilhowie Virginia
GARDEN RESEARCH LABORATORIES, INC. 18 E. 41st Street New York 17, New York	GRO-WEL PRODUCTS 168 Hill Avenue Sanford, North Carolina
	GROWERS & PRODUCERS EXCHANGE INC., THE Box 1020 Roanoke, Virginia

GRISMER COMPANY, EARL  
Box 5992  
Indianapolis, Indiana

GULF OIL CORPORATION  
Box 1166  
Pittsburgh 30, Pennsylvania

H & M CHEMICAL COMPANY, INC.  
43 Green Street  
Sumter, South Carolina

HAPPY JACK, INC.  
Box 325  
Snow Hill, North Carolina

HARMON PRODUCTS COMPANY  
616 East Fourth Street  
Gastonia, North Carolina

HARRIS & COMPANY, INC., J. M.  
Box 411  
Roanoke, Virginia

HARRIS MANUFACTURING CO., P. F.  
101 West 8th Street  
North Little Rock, Arkansas

HARRIS PRODUCTS COMPANY, INC.  
Box 4  
Miami Beach 39, Florida

HELLER LABORATORIES, INC.  
Calumet Avenue and 40th Street  
Chicago 15, Illinois

HENDRIX-BARNHILL COMPANY, INC.  
2004 Dickinson Avenue  
Greenville, N. C.

HESS & CLARK, INC., DR.  
7th and Orange Street  
Ashland, Ohio

HILL MANUFACTURING COMPANY  
1500 Jonesboro Road, S. E.  
Atlanta, Georgia

HILO COMPANY, THE  
Box 246  
Norwalk, Connecticut

HINTON & COMPANY, INC.  
67 Murray Street  
New York 7, New York

HOLCOMB MANUFACTURING  
COMPANY, J. I.  
1601 Barth Avenue  
Indianapolis 7, Indiana

HOME & GARDEN PRODUCTS CO.  
520 South Delaware Avenue  
Philadelphia 47, Pennsylvania

HOME MANUFACTURING AND  
SALES COMPANY  
800 South Downing Street  
Piqua, Ohio

HOPKINS AGRICULTURAL  
CHEMICAL COMPANY  
740 Williamson Street  
Box 584  
Madison, Wisconsin

HOUSE OF HUSTON, INC.  
4135 Laguna  
Coral Gables, Miami, Florida

HOUSTON COMPANY, SAM  
Box 662  
Talladega, Alabama

HUNTINGTON LABORATORIES, INC.  
900-970 East Tipton Street  
Huntington, Indiana

H. G. HUTSON & SONS  
P. O. Box 2190  
Atlanta, Georgia

HUTTING SASH & DOOR COMPANY  
1206 South Vandeventer Avenue  
St. Louis 10, Missouri

HYDROPONIC CHEMICAL CO., INC.  
Copley  
Ohio

HYDROTEX INDUSTRIES  
Box 2400  
Dallas, Texas

HY-GRO CORPORATION  
1101 Maryland Avenue  
Baltimore 1, Maryland

IRWIN-WILLERT COMPANY  
4044 Park Avenue  
St. Louis 10, Missouri

IVO, INC.  
Box 247  
West Bend, Wisconsin

JARRETT COMPANY, INC., CECIL H.  
P. O. Box 69  
Newton, North Carolina

JONES PRODUCTS COMPANY, INC.  
25 North Charter Street  
Madison 5, Wisconsin

JOHNSON & SON, INC., S. C.  
1525 Howe Street  
Racine, Wisconsin

KAY CHEMICAL COMPANY  
High Point, North Carolina

KEM-TOX CORPORATION, THE  
814 W. 3rd Street  
Little Rock, Arkansas

KING CHEMICAL COMPANY  
2342 South Lauderdale Street  
Memphis, Tennessee

KIRBY CHEMICAL COMPANY, INC.  
Severn  
North Carolina

KNAPP-MONARCH COMPANY  
3501 Bent Avenue  
St. Louis 16, Missouri

KOLKER CHEMICAL CORPORATION  
600 Doremus Avenue  
Newark 5, New Jersey

KOPPERS COMPANY, INC.  
Tar Products Division  
430 Park Avenue  
New York 22, New York

LARVACIDE PRODUCTS, INC.  
117 Liberty Street  
New York 6, New York

LA SALLE CHEMICAL COMPANY  
3601 South Racine Avenue  
Chicago 9, Illinois

LATHAN CHEMICAL PRODUCTS  
503 Neuse Street  
Oriental, North Carolina

LEBANON CHEMICAL CORP. Box 532 Lebanon, Pennsylvania	MILNER PRODUCTS COMPANY 4359 Northview Drive Jackson, Mississippi
LEDERLE LABORATORIES DIVISION American Cyanamid Company Middletown Road Pearl River, New York	MILLER COMPANY, B. E. Box 127 Hancock, Maryland
LeGEAR MEDICINE CO., DR. L. D. 4161 Beck Avenue St. Louis 16, Missouri	MILLER CHEMICAL AND FERTILIZER CORPORATION 2226 North Howard Street Baltimore 18, Maryland
LETHELIN PRODUCTS CO., INC. 15 MacQuesten Parkway, South Mount Vernon, New York	MILLER PRODUCTS COMPANY 607 Del Monte Way St. Louis 12, Missouri
LINCK COMPANY, INC., O. E. Route 46 and Valley Road Clifton, New Jersey	MONARCH SUPPLY, INC. 2438 West Lincoln Avenue Milwaukee 15, Wisconsin
LINDAVAP, INCORPORATED Box 638 635 South Main Street Ann Arbor, Michigan	MONSANTO CHEMICAL COMPANY 1700 South Second Street St. Louis 4, Missouri
LINEN WHITE CORP. P. O. Box 1001 Hattiesburg, Mississippi	MOORMAN MANUFACTURING CO. Quincy Illinois
LUCAS PRODUCTS CORPORATION 3839 Seiss Avenue Toledo 12, Ohio	MOTOMCO, INCORPORATED 89 Terminal Avenue Clark, New Jersey
MCCLELLAN LABORATORIES CORP., C. U. 321 West Redondo Beach Blvd. Gardena, California	MUNCIE LABORATORIES, INC. 543 Johnson Building Muncie, Indiana
McCORMICK & COMPANY, INC. McCormick Building Baltimore 2, Maryland	MURRAY COMPANY, EDGAR A. Division of Fairfax Biological Laboratory 1 Electronic Road Clinton Corners, New York
McKESSON & ROBBINS, INC. Box 548 Bridgeport, Connecticut	MUTUAL PRODUCTS COMPANY 509 North Fourth Street Minneapolis 1, Minnesota
McLAUGHLIN GORMLEY KING CO. 1715 Fifth Street, S. E. Minneapolis 14, Minnesota	NATIONAL ALUMINATE CORPORATION 6216 W. 66th Place Chicago 38, Illinois
MABEX COMPANY, THE Umbria and Lemonite Streets Philadelphia 27, Pennsylvania	NIAGARA CHEMICAL DIVISION Food Machinery & Chemical Corp. 1200 Talleyrand Ave. Jacksonville, Florida
MAHAFFEY COMPANY P. O. Box 3145 Greenville, South Carolina	NIP-CO MANUFACTURING INC. Box 356 New Rochelle, New York
MAINTENANCE SUPPLY CO., INC. Box 283 Huntersville, North Carolina	NOTT MANUFACTURING CO., INC. Box 87 Mount Vernon, New York
MALLINCKRODT CHEMICAL WORKS 72 Gold Street New York 8, New York	NOWLAND COMPANY, THE GEORGE H. 2833 Spring Grove Avenue Cincinnati 25, Ohio
MAXWELL INSECTICIDE CO., INC. Box 5627 Raleigh, North Carolina	NUODEX PRODUCTS COMPANY, INC. c/o Cornelius Zabriskie, Esq. 120 West 42nd Street New York 36, New York
MERCK & COMPANY, INC. Rahway New Jersey	NUSCO PRODUCTS, INC. 3118 South Ridgeway Avenue Chicago 23, Illinois
MICHIGAN CHEMICAL CORP. 500 North Bankson St. Louis, Michigan	NYAL COMPANY, INCORPORATED 511 East 72nd Street New York 21, New York
MIDLAND LABORATORIES 210-220 Jones Dubuque, Iowa	
MIKE, INC. Box 92 Newland, North Carolina	

OLIN MATHIESON CHEMICAL CORP. Mathieson Building Baltimore 3, Maryland Williamston, N. C.	PETPAK PRODUCTS COMPANY 5151 North 32 Street Milwaukee 9, Wisconsin
ONE-SPOT COMPANY Jessup Maryland	PFEIFFER COMPANY, THE 3965 Laclede Avenue St. Louis 8, Missouri
OPITZ, INC., JOHN 50-14 39th Street Long Island City 4, New York	PFIZER & COMPANY, INC., CHAS. 11 Bartlett Street Brooklyn 6, New York
ORB INDUSTRIES P. O. Box 589 Media, Pennsylvania	PHELPS DODGE REFINING CORP. 300 Park Avenue New York 22, New York
PACIFIC COAST BORAX COMPANY Division of Borax Consolidated, Ltd. 630 Shatto Place Los Angeles 5, California	PIEDMONT CHEMICAL CORPORATION P. O. Box 978 Savannah, Georgia
PANOGEN, INCORPORATED Rt. 14 Woodstock, Illinois	PIONEER MANUFACTURING COMPANY, THE 3053 East 87th Street Cleveland, Ohio
PAPER PRODUCTS INCORPORATED 18554 S. Susana Road Long Beach 5, California	PITTSBURGH COKE & CHEMICAL COMPANY Agricultural Chemicals Division Box 1645 Pittsburgh 30, Pennsylvania
PANTHER OIL & GREASE MANUFACTURING COMPANY Box Seven Eleven Fort Worth, Texas	PLANTERS CHEMICAL CORP. 3111 Virginia Beach Blvd. Norfolk, Virginia
PARKE, DAVIS & COMPANY Joseph Campau at the River Detroit 32, Michigan	POLK MILLER PRODUCTS CORP. 2007 North Hamilton Street Richmond, Virginia
PARRAMORE & GRIFFIN SEED CO., INC. 108 S. Toombs Street Valdosta, Georgia	PRATT COMPANY, B. G. 204 21st Avenue Paterson, New Jersey
PEARSON & COMPANY Box 431 Mobile, Alabama	PRATT FOOD COMPANY 25 Industrial Road Hammond, Indiana
PEE DEE CHEMICALS, INC. Railroad Avenue Kingstree, South Carolina	PRENTISS DRUG AND CHEMICAL COMPANY, INC. 101 W. 31st Street New York 1, New York
PEELE COMPANY, INC., W. R. P. O. Box 7 Raleigh, North Carolina	PROTECTION PRODUCTS MANUFACTURING COMPANY 2305 Superior Avenue Kalamazoo, Michigan
PENICK & COMPANY, S. B. 50 Church Street New York 8, New York	PROCTOR & GAMBLE COMPANY, THE P. O. Box 599 Cincinnati 1, Ohio
PENN-CHAMP OIL CORPORATION P. O. Box 191 Butler, Pennsylvania	PURE LABORATORIES, INC. 515 W. 6th Street, Pl. Charlotte, North Carolina
PENNSYLVANIA ENGINEERING CO. 1119-21 North Howard Street Philadelphia 23, Pennsylvania	PUREPAC CORPORATION 511 East 72nd Street New York 21, New York
PENNSYLVANIA SALT MANUFACTURING COMPANY Three Penn Center Plaza Philadelphia 2, Pennsylvania	PUREX CORPORATION, LTD. 9300 Rayo Avenue South Gate, California
PEST-GUARD PRODUCTS, INC. 731 W. Davis Street Dallas 8, Texas	
PET CHEMICALS, INC. 3101 S. W. 38th Court Miami, Florida	

PYRROLE CHEMICAL CORP. 817 Spring Lane Portsmouth, Ohio	SANITATION PRODUCTS COMPANY 1119 E. 10th Street Charlotte, North Carolina
QUALITY CHEMICAL CORP. Memorial Avenue Greenville, North Carolina	SAUER, THE C. F. COMPANY 2000 West Broad Street Richmond, Virginia
RALSTON PURINA COMPANY 835 South Eighth Street St. Louis, Missouri	SCOTT INDUSTRIES 311 Belevue Jackson, Tennessee
RAT BISCUIT COMPANY, THE AND/OR K-R-O COMPANY 19½ North Limestone Street Springfield, Ohio	SCOTT & SONS COMPANY, O. M. Marysville, Ohio
RAT LUNCHES COMPANY 1407 Ogden Street Denver 18, Colorado	SEACOAST LABORATORIES, INC. 156 Perry Street New York 14, New York
RAWLEIGH COMPANY, THE W. T. 223-225 East Main Street Freeport, Illinois	SEARS, ROEBUCK & COMPANY 925 South Homan Avenue Chicago 7, Illinois
REARDON LABORATORIES, INCOR- PORATED, W. G. 330 North Main Street Port Chester, New York	SENORET CHEMICAL COMPANY 610 Grafot Street St. Louis 2, Missouri
REEFER-GALLER, INC. 225 Fifth Avenue New York 10, New York	SEXTON & COMPANY, JOHN 10 Chestnut Street Philadelphia 5, Pennsylvania
REILLY TAR & CHEMICAL CORP. 1615 Merchant Bank Building Indianapolis 4, Indiana	SHELL CHEMICAL CORPORATION 460 Park Avenue New York 22, New York
REX RESEARCH CORPORATION 600 Montrose Avenue Toledo 7, Ohio	SHELL OIL COMPANY 50 West 50th Street New York 20, New York
REXALL DRUG COMPANY 8480 Beverly Boulevard Los Angeles 54, California	SHUPTRINE COMPANY Box 644 Savannah, Georgia
RIGO MANUFACTURING CO., INC. Box 1188, 638 Benton Avenue Nashville, Tennessee	SINCLAIR REFINING COMPANY Box 1710 Atlanta, Georgia
ROCON, INC. 1650 11th Street Denver 4, Colorado	SINGLETARY, JR. & COMPANY, F. B. 208 South Washington Street Rocky Mount, North Carolina
RODENT CONTROL FUND, N. C. STATE COLLEGE P. O. Box 5577, State College Station Raleigh, North Carolina	SINTOS COMPANY, INC., THE 220 East 21st Street New York 10, New York
ROHM & HAAS COMPANY 222 West Washington Square Philadelphia 5, Pennsylvania	SKAT PRODUCTS, INC. 7 Brown Street Newark 5, New Jersey
ROSE MANUFACTURING COMPANY 445 Main Street Beacon, New York	SMITH SEED & FEED COMPANY 315 Lynn Street Danville, Virginia
ROYAL LACE PAPER WORKS, INC. 99 Gold Street Brooklyn 1, New York	SMITH SPECIALTIES COMPANY, T. W. P. O. Box 5146 1101 Dade Street Charlotte, North Carolina
SALISBURY'S LABORATORIES, DR. 500 Gilbert Street Charles City, Iowa	SONCON MOBIL OIL COMPANY, INC. 26 Broadway New York 4, New York
SANFAX COMPANY, THE P. O. Box 604 Atlanta, Georgia	SOUTH-EAST SALES COMPANY 1308 E. Ponce De Leon Avenue Decatur, Georgia
	SOUTHERN AGRICULTURAL CHEMICALS, INC. Box 238 Kingstree, South Carolina

SOUTHERN AGRICULTURAL IN- SECTICIDES, INC. Box 1130 Hendersonville, North Carolina	STRICKLAND & COMPANY, J. Box 2841 Memphis, Tennessee
SOUTHERN CHEMICAL COMPANY Box 249 Hendersonville, N. C.	STULL'S CHEMICALS, INC. 3400 Nacogdoches Road San Antonio, Texas
SOUTHERN PRODUCTS COMPANY, INC. 1105 Chestnut Street Chattanooga, Tennessee	SUN OIL COMPANY 1608 Walnut Street Philadelphia 3, Pennsylvania
SPINDLE CITY CHEMICAL CO. P. O. Box 88 Canton, North Carolina	SUWANNEE DRUG COMPANY Newberry Florida
SPIRITTINE CHEMICAL CO. Box 233 Wilmington, N. C.	SWEENEY MANUFACTURING, INC., W. R. 340 S. Main Street Salisbury, Missouri
SPRATT'S PATENT (AMERICA) LIMITED 18 Congress Street Newark 5, New Jersey	SWIFT & COMPANY Plant Food Division Box 210 Wilmington, N. C.
STALFORT PRESSURE-PAK, INC. 2012 Hammonds Ferry Road Baltimore 27, Maryland	TAYLOR CHEMICAL COMPANY Aberdeen North Carolina
STANDARD AGRICULTURAL CHEMICALS, INC. 1301 Jefferson Street Hoboken, New Jersey	TAYLOR-REED CORPORATION Glenbrook Connecticut
STANDARD LABORATORIES, INC. 201 Tabor Road Morris Plains, New Jersey	TENNESSEE COPPER COMPANY Copperhill Tennessee
STANDARD NAPHTHALENE PRODUCTS COMPANY, INC. 115 Jacobus Avenue South Kearny, New Jersey	TENNESSEE CORPORATION 617-29 Grant Building Atlanta 1, Georgia
STATE CHEMICAL COMPANY P. O. Box 174 Rocky Mount, North Carolina	TENNESSEE PRODUCTS & CHEMICAL CORP. 500 First Amer. Nat'l Bank Bldg. Nashville, Tennessee
STAUFFER CHEMICAL COMPANY P. O. Box 5285 Tampa 5, Florida	TERRELL MOTHPROOF INSTITUTE 2 West Columbia Street Springfield, Ohio
STEARNS' ELECTRIC PASTE CO. 111 West Washington Street Chicago 2, Illinois	TESCO CHEMICALS, INC. 1575 Northside Drive, N. W. Atlanta, Georgia
STEPHENSON CHEMICAL COMPANY P. O. Box 188 College Park, Georgia	TEXIZE CHEMICALS, INC. Box 1820 Greenville, South Carolina
STERLING CHEMICAL COMPANY 3909 Broadway Kansas City, Missouri	THOMPSON-HAYWARD CHEMICAL COMPANY 2915 Southwest Boulevard Kansas City 8, Missouri
STERLING COMPANY, INC., THE 2801-05 Locust Street St. Louis 3, Missouri	TOXITE LABORATORIES, INC. Cumberland Indiana
STERWIN CHEMICALS, INC. 1450 Broadway New York 18, New York	T. & R. CHEMICAL COMPANY P. O. Box 336 Fuquay Springs, North Carolina
STEVENS INDUSTRIES, INC. Box 272 Dawson, Georgia	TRU-PINE COMPANY 7644 Vincennes Avenue - S Chicago 20, Illinois
	TANCK, INCORPORATED, RAY H. Middleton, Wisconsin

U. S. BORAX & CHEMICAL CORP. 630 Shatto Place Los Angeles 5, California	WELLS & COMPANY, INC., S. C. 1-3 Church Street LeRoy, New York
UNION CARBIDE AND CARBON CORPORATION 30 East 42nd Street New York 17, New York	WEST DISINFECTING COMPANY 42-16 West Street Long Island City 1, New York
U. S. RUBBER COMPANY 1230 Avenue of the Americas New York 20, New York	WESTCHESTER VETERINARY PRODUCTS Division of Eastco, Inc. 180 Mamaroneck Avenue White Plains, New York
VACCINOL CHEMICAL COMPANY P. O. Box 3205-2487 Penn. Ave. Memphis 9, Tennessee	WESTON PRODUCTS COMPANY 330 West Salisbury Street Asheboro, North Carolina
VAN BRODE MILLING CO., INC. 20 Cameron Street Clinton, Massachusetts	WESTVACO CHEMICAL DIVISION Food Machinery and Chemical Corp. 161 East 42nd Street New York 17, New York
VANDERBILT COMPANY, INC. R. T. 230 Park Avenue New York 17, New York	WHITMIRE RESEARCH LABORATORIES, INC. 339 South Vandeventer Avenue St. Louis 10, Missouri
VAPORETTE, INC. 823 Merchantile Bank Building Dallas 1, Texas	WHITMOYER LABORATORIES, INC. 19 North Railroad Street Myerstown, Pennsylvania
VESTAL LABORATORIES, INC. 4963 Manchester St. Louis 10, Missouri	WILSON, INC., ANDREW Baltusrol Way Springfield, New Jersey
VICTRYLITE CANDLE COMPANY 24 Lake Drive Oshkosh, Wisconsin	WINDSOR WAX COMPANY, INC. 611 Newark Street Hoboken, New Jersey
VINELAND POULTRY LABORATORY P. O. Box 70 Vineland, New Jersey	WINN-DIXIE STORES, INC. P. O. Box 840 Greenville, South Carolina
VIRGINIA-CAROLINA CHEMICAL CORPORATION 401 East Main Street Richmond, Virginia	WINRU CHEMICAL & SALES CO. 923 State Line Kanas City 1, Missouri
VIRGINIA SMELTING COMPANY West Norfolk Virginia	WOODLETS, INC. 2048 Niagara Street Buffalo 7, New York
WALGREEN COMPANY 4300 Peterson Avenue Chicago 30, Illinois	WOOLFOLK CHEMICAL WORKS, LTD. East Main Street Fort Valley, Georgia
WALKER REMEDY COMPANY 224 Commercial Waterloo, Iowa	WORRELL-CONSOLIDATED LABORATORIES 1470 South Vandeventer Avenue St. Louis 10, Missouri
WALLACE HARDWARE CO., INC. 9-13 North Cumberland Street Morristown, Tennessee	WYATT-QUARLES SEED COMPANY Raleigh, North Carolina
WATKINS COMPANY, THE J. R. 150 Liberty Street Winona, Minnesota	WYETH LABORATORIES Division of Amer. Home Prod. Corp. P. O. Box 8299 Philadelphia 1, Pennsylvania
WAYNE WHOLESALE GROCERY CO. North James Extension 117 By-Pass Goldsboro, North Carolina	YALE CHEMICAL COMPANY P. O. Box 715 Nashville, Tennessee
WEEVIL-CIDE COMPANY, THE 1323 Union Avenue Kansas City 1, Missouri	

## **N. C. Aerial Crop-Dusting Law and Regulations**

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its fourth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualification for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

### **N. C. AERIAL CROP-DUSTING LAW CHAPTER 106, N. C. GENERAL STATUTES.**

#### **Article 4B, Aircraft Application of Pesticides**

##### **§106-65.13. Definitions.** For the purposes of this Article:

a. The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

b. The term "insecticide" means any substance or mixture of sub-

stances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

c. The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

d. The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

e. The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

f. The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

g. The term "weed" means any plant or plant part which grows where not wanted.

h. The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.

i. The term "Commissioner" means the Commissioner of Agriculture.

j. The term "Board of Agriculture" means the North Carolina Board of Agriculture.

k. The term "custom application of pesticides" means any application of pesticides by aircraft.

l. The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

#### **\$106-65.14. Licenses.**

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examination, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this Article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this Article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this Article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, provided, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

**§106-65.15. Regulations, Materials and Methods of Application.**—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this Article. **Provided**, however, such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

**§106-65.16. Reports.**—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

**§106-65.17. Information.**—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

**§106-65.18. Penalties.**—Any person violating the provisions of this Article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

**§106-65.19. Enforcement.**—For the purpose of carrying out the provisions of this Act the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this Article.

**§106-65.20. Delegation of Duties.**—The functions vested in the Commissioner by this Article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

**§106-65.21. Cooperation.**—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this Article and of securing uniformity of regulations.

**§106-65.22. Separability.**—If any provision of this Act is declared unconstitutional, or the applicability thereof to any person or circumstance is held invalid, by a court of competent jurisdiction, the constitutionality of the remainder of the Act and the applicability thereof to other persons and circumstances shall not be affected thereby.

## RULES, REGULATIONS, DEFINITIONS AND STANDARDS CHAPTER XII

### Application of Pesticides By Aircraft

#### ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

**§12-1. Application for License.**—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

**§12-2. Classes of Licenses.**—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

**§12-3. Examination for License.**—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

**§12-4. Modification, Revocation or Suspension of License.**—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

**§12-5. Display of License.**—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

**§12-6. Liability Bond.**—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover

damages resulting from the application of pesticides, but only for damages caused by aircraft.

**§12-7. Report and Records.**—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each Contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

**§12-8. Responsibility of Contractors and Applicators.**—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

## Licensees under N. C. Aerial Crop-Dusting Law for 1956

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1956. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1956, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1957.

**AERO DUST & SPRAY SERVICE**  
P. O. Box 191  
Richlands, North Carolina  
*Contractor*

**JACK ARMSTRONG**  
P. O. Box 1231  
New Bern, North Carolina  
*Applicator*

**W. H. BAGGETT**  
Baggett Dusting Service  
603 S. 22nd Street  
Ft. Pierce, Florida  
General Delivery  
Fuquay Springs, North Carolina  
*Applicator and Contractor*

**JOSEPH NORMAN BAGWELL**  
Fletcher, North Carolina  
*Applicator*

**FREDERIC WILLIAM BAILES, JR.**  
P. O. Box 101  
Washington, North Carolina  
Beckley, West Virginia  
*Applicator*

**JOE K. BALL, JR.**  
Confederate Dusting & Spraying Service  
Louisburg Airport  
Louisburg, North Carolina  
*Applicator and Contractor*

**WILLIAM JACOB BAMFORD**  
Box 1127  
New Bern, North Carolina  
Orlando, Florida  
*Applicator*

**LLOYD H. BARNWELL**  
Barnwell Flying Service  
Box 221  
Douglas, Georgia  
Carters Store  
Youngsville, North Carolina  
*Applicator and Contractor*

**PAUL BATEMAN**  
Hotel Whiteville  
Whiteville, North Carolina  
*Applicator*

**REX BEAMER**  
Winston-Salem, North Carolina  
*Applicator*

**ARTHUR V. BETTENCOURT**  
P. O. Box 191  
Richlands, North Carolina  
*Applicator*

**DUKE COLVARD BLEDSOE, JR.**  
Laurel Springs, North Carolina  
P. O. Box 191  
Richlands, North Carolina  
*Applicator*

**BLUE RIDGE AIRWAYS**  
Box 202  
Ridgeway, Virginia  
Lawsonville, North Carolina  
*Contractor*

**ELMER B. BRYAN, JR.**  
Candor, North Carolina  
*Applicator*

**PERRY P. BRYANT**  
Route 1, Box 12  
Stoneyville, North Carolina  
*Applicator*

**RAYMOND T. BURKE**  
Box 471  
Rocky Mount, North Carolina  
*Applicator and Contractor*

**H. E. CAMPBELL**  
Route 7, Box 36 AA  
Fayetteville, North Carolina  
*Applicator*

**GEORGE W. CARR**  
Box 31  
Lumberton, North Carolina  
*Applicator and Contractor*

**OSCAR E. CASE**  
Case Dusting Company  
55 Flat Rock Avenue  
Hendersonville, North Carolina  
*Applicator and Contractor*

**JAMES R. CHERRY**  
Cherry Flying Service  
Pemberton, New Jersey  
Burgaw, North Carolina  
*Applicator and Contractor*

**H. H. CHRISTOPHER**  
H. H. Christopher Dusting Service  
Box 716  
Okeechobee, Florida  
Box 446, Raeford, North Carolina  
*Applicator and Contractor*

**W. U. CLYBURN**  
Kershaw, South Carolina  
P. O. Box 207  
Candor, North Carolina  
*Applicator*

JAMES O. COMPTON, JR.  
Compton's Flying Service  
P. O. Box 362  
South Boston, Virginia  
*Applicator and Contractor*

THOMAS EDWARD COMPTON  
Route 2  
Ringgold, Virginia  
*Applicator*

HOWARD M. COOK, JR.  
Box 114  
Candor, North Carolina  
Daytona Beach, Florida  
*Applicator*

JOE E. COUCH  
c/o L. S. Jernigan  
P. O. Box 266  
Ahoskie, North Carolina  
*Applicator*

ALFRED C. CRAICHY  
Route 2  
Ruffin, North Carolina  
*Applicator*

PHIL A. CRON  
1713 N. Alexander Road  
Tampa, Florida  
P. O. Box 191  
Richlands, North Carolina  
*Applicator*

CALVIN L. CRUSE  
P. O. Box 802  
Davidson, North Carolina  
*Applicator and Contractor*

LEONARD Y. DEAN IV  
Eufaula, Alabama  
Candor, North Carolina  
*Applicator*

JAMES L. DeHAVEN  
c/o Jernigan Spray Service  
Ahoskie, North Carolina  
Coffeyville, Kansas  
*Applicator*

FRANK C. DENTON  
323 King Drive  
Hendersonville, North Carolina  
*Applicator and Contractor*

CHARLES G. DICKENS  
Thomasville, North Carolina  
*Applicator*

H. A. DOZIER, JR.  
c/o Farmers Supply House  
P. O. Box 1127  
New Bern, North Carolina  
Bunnell, Florida  
*Applicator*

JOSEPH H. DRAKE  
P. O. Box 22  
Washington, North Carolina  
*Applicator*

EURE BROS.  
1712 Weber Avenue  
Orlando, Florida  
Seaboard, North Carolina  
*Contractor*

MACK G. EURE  
1712 Weber Avenue  
Orlando, Florida  
Seaboard, North Carolina  
*Applicator*

FARMERS SUPPLY HOUSE  
P. O. Box 1127  
New Bern, North Carolina  
*Contractor*

WILLIAM M. FITZPATRICK  
235 Second Hill Avenue  
Stratford, Connecticut  
Box 191  
Richlands, North Carolina  
*Applicator*

GLENN FLEETWOOD  
Jackson, North Carolina  
*Contractor*

DOVER FOGLEMAN  
Alamance Aviation Service, Inc.  
Box 1331  
Burlington, North Carolina  
*Applicator and Contractor*

PAT FOLEY  
P. O. Box 191  
Richlands, North Carolina  
*Applicator*

H. H. FOLTZ  
Winston-Salem, North Carolina  
*Applicator*

W. A. FORBES  
Box 94  
Winterville, North Carolina  
*Contractor*

LINDY FORTUNE  
Black Mountain, North Carolina  
Oxford, North Carolina  
*Applicator*

FOUNTAIN AERIAL SPRAY SERVICE  
Chinquapin, North Carolina  
*Contractor*

THELBERT A. FOUNTAIN  
Ideal Dusting & Spray Service  
Route 1, Box 214  
Richlands, North Carolina  
*Applicator and Contractor*

G. N. FUNKHOUSER, SR.  
Waverly Flying Service  
P. O. Box 206  
Boykins, Virginia  
*Applicator and Contractor*

L. W. FUSSELMAN  
P. O. Box 191  
Richlands, North Carolina  
San Antonio, Texas  
*Applicator*

CHARLES V. GARDNER  
Route 2  
Reidsville, N. C.  
Box 6  
Gainesville, Virginia  
*Applicator*

SIDNEY E. GIBBS  
Guilford College, North Carolina  
*Applicator*

JOE GIBSON  
Winston-Salem, North Carolina  
*Applicator*

JOSEPH R. GIBSON  
c/o L. S. McMahon  
Route 2  
Reidsville, North Carolina  
Winston-Salem, North Carolina  
*Applicator*

R. O. GODLEY  
Greenville Aviation Inc.  
P. O. Box 22  
Washington, North Carolina  
*Contractor*

THOMAS J. GORDON  
c/o Stancil Flying Service  
P. O. Box 101  
Washington, North Carolina  
Chicago, Illinois  
*Applicator*

WALTER R. GRIFFIN  
P. O. Box 2033  
Greensboro, North Carolina  
*Applicator*

SHERMAN W. HANKE  
Box 29  
Summerfield, Florida  
General Delivery  
Laurinburg, North Carolina  
*Applicator and Contractor*

WILLIAM SHERMAN HART  
Route 1, Box 414  
Roanoke Rapids, North Carolina  
*Applicator*

EUGENE C. HATCHELL  
Box 275  
Candor, North Carolina  
*Applicator*

JOSH L. HAZELTON  
Route 1  
Winterville, North Carolina  
*Applicator*

WAYNE J. HENNINGS  
Route 2  
Bailey, North Carolina  
*Applicator and Contractor*

WALTER E. HIGHT, JR.  
Route 2, Box 15  
Henderson, North Carolina  
*Applicator*

C. JAY HOUSER  
P. O. Box 191  
Richlands, North Carolina  
Richmond, Indiana  
*Applicator*

J. B. HOWELL, JR.  
Concord, North Carolina  
Washington, North Carolina  
*Applicator*

DAVID M. HUBER  
543 Rowland Street  
Henderson, North Carolina  
Gainesville, Florida  
*Applicator*

ROBERT M. HUNT  
c/o James Motor Company  
Chinquapin, North Carolina  
*Applicator*

INDIAN RIVER FLYING SERVICE,  
INC.  
Box 772  
Vero Beach, Florida  
Kinston, North Carolina  
*Contractor*

GRANT W. JEFFRIES  
Winston-Salem, North Carolina  
*Applicator*

JERNIGAN SPRAY SERVICE, INC.  
P. O. Box 266  
Ahoskie, North Carolina  
*Contractor*

PERRY W. JONES  
325 Spring Street  
Hendersonville, North Carolina  
*Applicator*

JOSH JORDAN  
Box 275  
Candor, North Carolina  
*Applicator and Contractor*

S. O. KELLEY  
Winston-Salem, North Carolina  
*Applicator*

EMIL JOSEPH KUTILEK  
Route 1  
Chinquapin, North Carolina  
Yankton, South Dakota  
*Applicator*

DONALD KEITH LAWRENCE  
c/o L. S. McMahon  
Route 2  
Reidsville, North Carolina  
*Applicator*

EDDIE B. LEE  
c/o Turners Flying Service  
P. O. Box 386  
Wilson, North Carolina  
Goldsboro, North Carolina  
*Applicator*

CHARLES LEFFORGE  
543 Rowland Street  
Henderson, North Carolina  
Elk Point, South Dakota  
*Applicator*

CARL T. LOVE  
Aero Farm Service  
837 S. Church Street  
Burlington, North Carolina  
*Applicator and Contractor*

JACK LOWERS  
P. O. Box 293  
Clinton, North Carolina  
*Applicator and Contractor*

MARVIN W. LYLE  
P. O. Box 293  
Clinton, North Carolina  
Haysville, Kansas  
*Applicator*

L. E. LYONS  
Winston-Salem, North Carolina  
*Applicator*

MAC'S SPRAY SERVICE, INC.  
1408 N. Green Street  
Greenville, North Carolina  
*Contractor*

LELAND S. McMAHON Route 2 Reidsville, North Carolina <i>Applicator and Contractor</i>	DELMAR C. OWENS Owens Crop Dusting Service Route 2 Roper, North Carolina <i>Applicator and Contractor</i>
LAWRENCE C. McVEY 1408 Stroud Avenue Kinston, North Carolina c/o Aero Dust & Spray Service Box 191 Richlands, North Carolina <i>Applicator</i>	JOHN E. PACE, JR. Box 202 Ridgeway, Virginia Lawsonville, North Carolina <i>Applicator</i>
CALVIN L. MERCER 155 60th Street West New York, New Jersey P. O. Box 1014 Danville, Virginia <i>Applicator</i>	ROBERT PARKER c/o Piedmont Aviation Winston-Salem, North Carolina <i>Applicator</i>
S. S. MILLER Reidsville, North Carolina <i>Applicator</i>	KENNETH LEE PASCHAL c/o L. S. McMahon Route 2 Reidsville, North Carolina <i>Applicator</i>
LUTHER G. MIMS c/o Mr. R. Venters Hookerton, North Carolina <i>Applicator</i>	DILLARD M. POWELL Powell Flying Service Route 2 Ruffin, North Carolina <i>Applicator and Contractor</i>
CLARENCE T. MODLIN Scotland Flying Service, Inc. Laurinburg, North Carolina <i>Applicator and Contractor</i>	F. M. POWELL Box 145 Zebulon, North Carolina Zellwood, Florida <i>Applicator and Contractor</i>
JAMES FRANKLIN MOSER P. O. Box 802 Davidson, North Carolina <i>Applicator</i>	HUGH REYNOLDS AIRPLANE DUST- ING & SPRAYING P. O. Box 119 Candor, North Carolina <i>Contractor</i>
MAX MULLIS Mullis Spraying Company P. O. Box 457 York, South Carolina c/o A. F. Currlins Rowland, North Carolina <i>Applicator and Contractor</i>	L. F. "JACK" REYNOLDS P. O. Box 207 Candor, North Carolina <i>Applicator and Contractor</i>
ROBERT D. NANCE, JR. 3005 Woodland Avenue Winston-Salem, North Carolina <i>Applicator</i>	WILLIAM RICHARDSON General Delivery Kenansville, North Carolina Syracuse, New York <i>Applicator</i>
JAMES A. NAYLOR P. O. Box 63 Clinton, North Carolina <i>Applicator</i>	LEWIS CARROLL ROACH Route 2 Reidsville, North Carolina Axton, Virginia <i>Applicator</i>
R. A. NAYLOR Clinton Flying Service P. O. Box 63 Clinton, North Carolina <i>Applicator and Contractor</i>	M. M. RODDY Box 471 Rocky Mount, North Carolina <i>Applicator and Contractor</i>
JOHN W. NEWMAN 232 N. Broad Street Mooresville, North Carolina General Delivery Erwin, North Carolina <i>Applicator and Contractor</i>	TED E. ROMAN Ted Roman Crop Dusting 316 N. W. 12th Drive Belle Glade, Florida Route 1, Angier, North Carolina <i>Applicator and Contractor</i>
CHARLES E. NICKLES 405 Sunset Avenue Clinton, North Carolina Frankfort, Kentucky <i>Applicator</i>	JOHN WALTER ROUTT Pamplin, Virginia <i>Applicator</i>
NEIL F. OLESON Neil F. Oleson Crop Spraying 103 Poplar Drive Greenville, North Carolina <i>Applicator and Contractor</i>	W. S. ROWE, JR. Rowe Flying Service P. O. Box 546 Bennettsville, South Carolina <i>Applicator and Contractor</i>

## FRANK SCHWEIKERT

P. O. Box 22  
Washington, North Carolina  
Ann Arbor, Michigan  
*Applicator*

## WILLIAM SCOTT

P. O. Box 191  
Richlands, North Carolina  
*Applicator*

## VERDY H. SHEPHERD, JR.

1108 Garfield Road  
Burlington, North Carolina  
*Applicator*

## NATHAN M. SIMPSON

Simpson Crop Service, Inc.  
Route 1, Box 370  
Brown Summit, North Carolina  
*Applicator and Contractor*

## R. R. SLATE, JR.

South Boston, Virginia  
c/o Joe Smith Aerial Spraying  
282 Arnett Blvd.  
Danville, Virginia  
*Applicator*

## JOSEPH J. SMITH

Joe Smith Aerial Spraying  
282 Arnett Blvd.  
Danville, Virginia  
*Applicator and Contractor*

## THOMAS E. STANCIL, Jr.

Stancil Flying Service  
P. O. Box 101  
Washington, North Carolina  
*Applicator and Contractor*

## DOCK B. STARNS

Lowrys, South Carolina  
*Applicator*

## RHONDA L. STORY

Pamlico Flying Service  
Bayboro, North Carolina  
*Applicator and Contractor*

## STANLEY S. SVRLINGA

General Delivery  
Laurinburg, North Carolina  
Box 421, Zellwood, Florida  
*Applicator and Contractor*

## GENE ALLEN SWOFFORD

P. O. Box 63  
Clinton, North Carolina  
1023 Gregory Street  
Greensboro, North Carolina  
*Applicator*

## AYLOR TALBOTT

Aylor's Crop Spraying Service  
South Boston, Virginia  
*Applicator and Contractor*

## ROBERT M. TASSELL

11903 Dowling Lane  
Jacksonville, Florida  
New Columbus Hotel  
Whiteville, North Carolina  
*Applicator*

## ROBERT L. THOMPSON

P. O. Box 362  
South Boston, Virginia  
*Applicator*

## WILLIAM J. TILLMAN

Route 1  
Stanley, North Carolina  
Box 191, Richlands, North Carolina  
*Applicator*

## EDWARD L. TREAT

Treats Dusting Service  
1609 Citrus Avenue  
Ft. Pierce, Florida  
General Delivery  
Angier, North Carolina  
*Applicator and Contractor*

## WENDELL K. TROGDON

Trogdon Flying Service, Inc.  
P. O. Box 2033  
Greensboro, North Carolina  
Route 1, Climax, North Carolina  
*Applicator and Contractor*

## B. W. TRUEBLOOD

Box 471  
Rocky Mount, North Carolina  
*Applicator and Contractor*

## JOE C. TURNER

600 W. Colonial Avenue  
Elizabeth City, North Carolina  
Newport News, Virginia  
*Applicator*

## ROBERT J. TURNER, JR.

Turner's Flying Service  
543 Rowland Street  
Henderson, North Carolina  
*Applicator and Contractor*

## W. D. TURNER

437 Rollins Avenue  
Henderson, North Carolina  
*Applicator*

## GLENN WAITE

P. O. Box 22  
Washington, North Carolina  
Forest, Illinois  
*Applicator*

## BEN WALKER

Winston-Salem, North Carolina  
*Applicator*

## BENNIE A. WALKER

538 University Drive  
Greensboro, North Carolina  
c/o L. S. McMahon  
Route 2, Reidsville, North Carolina  
*Applicator*

## GEORGE D. WALTERS

516 W. Main Street  
P. O. Box 84  
Elizabeth City, North Carolina  
*Applicator and Contractor*

## H. C. WARF

Warf Flying Service  
Route 6  
Reidsville, North Carolina  
*Applicator and Contractor*

## AMOS M. WENTE

Box 1231  
New Bern, N. C.  
*Applicator*

## ARTHUR V. WHIDDEN

Box 193  
Bowling Green, Florida  
c/o F. I. Carter  
Wake Forest, North Carolina  
*Applicator*

## FRED WHITFIELD

Route 2  
Burlington, North Carolina  
*Applicator*

## ROBERT O. WHITFIELD

Whitfield Crop Spraying Service  
Hurdle Mills, North Carolina  
*Applicator and Contractor*

## KENNETH WHITTAKER

Mill Street  
Ellerbee, North Carolina  
Rowe Airport  
Bennettsville, South Carolina  
*Applicator*

## JOHN H. WHITTINGTON

Dillon, South Carolina  
*Applicator*

## DANIEL B. WILDER

c/o Scotland Flying Service  
Laurinburg, North Carolina  
*Applicator*

## DAN WILLIAMS

Academy Street  
Madison, North Carolina  
*Applicator*

## HAROLD SYDNEY WILLIAMS

c/o Baggett Dusting Service  
Lillington Airport  
Lillington, North Carolina  
Ft. Pierce, Florida  
*Applicator*

## J. B. WILLIAMS, JR.

Box 471  
Rocky Mount, North Carolina  
*Applicator and Contractor*

## E. M. WILSON

Lava Hot Springs, Idaho  
Wallace, North Carolina  
*Applicator*

## J. C. WILSON

Mooresville, North Carolina  
General Delivery  
Angier, North Carolina  
*Applicator*

## YADKIN VALLEY CROP SPRAYING

COMPANY  
Route 1  
Pfafftown, N. C.  
*Contractor*

## LONNIE YORK SPRAYING SERVICE

Ramseur, North Carolina  
*Contractor*



**Official Analyses  
of  
Economic Poisons  
1956**

# Summary of Economic Poisons Examined — 1956

TYPES	S A M P L E S				
	Passed	De-ficient	Adul-terated	Mis-branded	Not Regis-tered
<b>Arsenicals</b>					
Arsenic trioxide	8	—	—	—	—
Lead Arsenate	12	—	—	—	—
Paris Green	8	—	—	—	—
Sodium Arsenate	—	2	—	2	—
Sodium Arsenite	1	—	—	—	—
Arsenic with other materials	7	—	—	—	—
<b>Organic Chlorine Compounds</b>					
Aldrin-Aldrin with DDT-Sulfur	33	16	—	—	—
Benzene Hexachloride	15	—	—	—	—
BHC-DDT-Sulfur Mixtures	115	10	—	—	—
BHC-DDT with other materials	16	5	—	—	—
BHC with other materials	18	1	—	—	—
Captan preparations	6	—	—	—	—
Chlordane preparations	49	6	—	—	—
2,4-D — 2,4,5-T	8	—	—	—	—
DD	4	—	—	—	—
DDD (TDE) preparations	233	22	8	2	—
DDT	88	9	—	—	2
DDT with other materials	41	4	—	—	—
1,2 di bromo 3 chloro propane	1	—	—	—	—
Dieldrin	3	—	—	—	—
Dipterex	2	—	—	—	—
Endrin	40	—	—	—	—
Ethylene dichloride-Carbon Tetrachloride	6	—	—	—	—
Heptachlor preparations	7	—	—	—	—
Methoxychlor preparations	19	3	—	1	—
Toxaphene preparations	210	10	1	—	—
Spergon	—	—	—	—	1
<b>Metallic Compounds</b>					
Calcium compounds	3	—	—	—	—
Copper-Copper with other materials	11	—	—	—	—
Malathion preparations	34	8	—	—	1
Metallic dithiocarbamates	87	—	—	—	—
Parathion preparations	21	—	—	—	—
Phosphorus	2	—	—	—	—
Thallium sulfate	2	—	—	—	—
<b>Botanicals</b>					
Nicotine	1	—	—	—	—
Pyrethrins preparations	16	1	—	—	—
Rotenone preparations	138	17	—	1	3
Sabadilla	33	2	—	—	—
<b>Miscellaneous</b>					
Antu	1	—	—	—	—
Boron Compounds	2	—	—	—	—
Ethylene di bromide	1	—	—	—	—
EPN	1	—	—	—	—
Fluorine compounds	4	—	—	—	—
Fumarin	5	—	—	—	—
MH 30	9	—	—	—	—
Naphthalene	1	—	—	—	—
Petroleum oils	1	—	—	—	—
Pine Oil	3	—	—	—	—
Pival	5	—	—	—	—
Phenols-BHC	3	8	—	—	—
Phenyl mercuric acetate	1	—	—	—	—
Potassium cyanate	1	1	—	—	—
Sodium chlorate	2	—	—	—	—
Strychnine	1	—	—	—	—
Thiram	2	—	—	—	—
Warfarin	13	—	—	—	—
<b>TOTALS</b>	<b>1354</b>	<b>125</b>	<b>9</b>	<b>6</b>	<b>7</b>

Number manufacturers registered (total) ..... 376  
 Number manufacturers registered from North Carolina ..... 52  
 Number items registered ..... 3,160  
 Number stop sale orders issued ..... 124

## Decisions

The results of analysis of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

**"Passed"** signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

**"Deficient"** usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

**"Adulterated"** indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analyses may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

**"Misbranded"** signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

**"Not Registered"** signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

## Official Analyses of Economic Poisons, 1956

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
<b>ALDRIN</b>			
<b>Acme Fertilizer Company</b>			
Aldrin Emulsion			
Aldrin .....	23.71	19.94	Deficient
<b>California Spray-Chemical Corp.</b>			
Ortho Aldrin 2.5 Dust			
Aldrin .....	2.50	2.10	Deficient
<b>Daly-Herring Company</b>			
Dee Aitch 5% Aldrin Dust			
Aldrin .....	5.00	4.18	Deficient
<b>Farm Service Company</b>			
Champion Aldrin Emulsion			
Aldrin .....	23.10	21.54	Deficient
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Aldrin 2½% Dust			
Aldrin .....	2.50	2.91	Passed
Mathieson Aldrin 10% Dust			
Aldrin .....	10.00	9.98	Passed
Aldrin Emulsifiable Concentrate			
Aldrin .....	25.20	22.88	Deficient
<b>W. R. Peele Company, Inc.</b>			
Pelco 5% Aldrin Dust			
Aldrin .....	5.00	5.29	Passed
Pelco 2 lb. Aldrin Emulsifiable Concentrate			
Aldrin .....	24.28	22.63	Deficient
do .....	24.28	21.21	Deficient
do .....	24.28	18.47	Deficient
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand Aldrin Emulsible Concentrate			
Aldrin .....	24.74	21.39	Deficient

\* See preceding page for explanations of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Taylor Chemical Company</b>			
Superkill 20% Aldrin Emulsifiable Concentrate			
Aldrin	23.40	25.95	Passed
do	23.40	25.76	Passed
do	23.40	32.72	Passed
do	23.40	25.59	Passed
do	23.40	34.52	Passed
Superkill 23% Aldrin Emulsifiable Concentrate			
Aldrin	24.73	23.24	Deficient
<b>ALDRIN - DDT</b>			
<b>Acme Fertilizer Company</b>			
2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	3.97	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.00	
2½% Aldrin with 10% DDT			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical Chlorine	6.63	7.03	
Aldrin—DDT Emulsion			
Aldrin	11.40		Deficient
DDT	23.00		
Theoretical Chlorine	20.48	19.04	
<b>California Spray-Chemical Corp.</b>			
Ortho Aldrin—DDT 2.5-5 Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.23	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	3.97	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.54	
Ortho Aldrin—DDT 2.5-10 Dust			
Aldrin	2.50		Deficient
DDT	10.00		
Theoretical Chlorine	6.63	5.97	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Aldrin Equivalent—DDT Dust 2½-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.14	
<b>Davison Chemical Company</b>			
Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.34	
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 2½-5-0 Cotton Dust			
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical Chlorine	4.47	4.20	
<b>Farm Service Company</b>			
Aldrin and DDT Dust			
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical Chlorine	4.47	3.80	
<b>Geigy Agricultural Chemicals</b>			
Geigy 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.47	4.52	
<b>Johnson Cotton Company, Inc.</b>			
Southern Quality 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.03	
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.52	
Aldrin Equivalent Cotton Dust 2.5-10-0			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical Chlorine	6.97	6.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Olin Mathieson Chemical Corp.</b>			
2.5-5-0 Cotton Dust			
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	4.13	4.52	
<b>W. R. Peele Company, Inc.</b>			
Pelco 2 1/2% Aldrin—5% DDT Dust			
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.20	
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.00	
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	3.77	
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.00	
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.00	
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.05	
<b>Planters Chemical Corp.</b>			
Planters Aldrin—DDT Cotton Dust			
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	4.13	3.94	
<b>Swift and Company</b>			
Swift's Gold Bear Brand Insecticide 2.5-5			
Aldrin -----	2.50		Deficient
DDT -----	5.00		
Theoretical Chlorine -----	4.47	3.75	
Swift's Gold Bear Insecticide Dust W D 2.5-10			
Aldrin -----	2.50		Deficient
DDT -----	10.00		
Theoretical Chlorine -----	6.97	6.43	
<b>Taylor Chemical Company</b>			
Superkill 2 1/2% Aldrin—5% DDT Dust			
Aldrin -----	2.50		Passed
DDT -----	5.00		
Theoretical Chlorine -----	3.95	4.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Woolfolk Chemical Works, Ltd.</b>			
2½% Aldrin Equivalent with 5% DDT			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.47	4.31	
Drain-Sol DDT Emulsifiable Spray for Cotton			
Aldrin	11.31		Passed
DDT	23.00		
Theoretical Chlorine	20.27	20.28	
<b>ALDRIN - DDT - SULFUR</b>			
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
Naco Aldrin 118 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	38.75	
Theoretical Chlorine	3.95	3.76	
<b>W. R. Peele Company, Inc.</b>			
Pelco 2½% Aldrin—5% DDT—40% Sulfur			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	40.95	
Theoretical Chlorine	3.95	4.43	
<b>ARSENICALS</b>			
<b>ARSENIC TRIOXIDE</b>			
<b>Anderson and Spilman</b>			
Zip Rat and Mouse Killer			
Arsenic trioxide	2.236	2.470	Passed
<b>Carajon Chemical Company, Inc.</b>			
Force's Mole Killer			
Arsenic trioxide	5.00	5.41	Passed
<b>Chamberlain Exterminators</b>			
Chamberlains Rat Poison			
Arsenic trioxide	2.00	2.18	Passed
<b>M. A. Chapman and Son</b>			
Kill-Em			
Arsenic trioxide	2.20	2.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>F. B. Singletary, Jr. and Company</b>			
Singletary's Rat and Mouse Killer			
Arsenic trioxide .....	3.50	3.37	Passed
do .....	3.50	3.56	Passed
<b>Southern Chemical Company</b>			
Nok-Out-Bam			
Arsenic trioxide .....	3.00	3.42	Passed
do .....	3.00	3.47	Passed
<b>LEAD ARSENATE</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Arsenate of Lead			
Lead arsenate .....	98.00		Passed
Arsenic as metallic .....	20.00	22.19	
Arsenic-water soluble (not more than) .....	0.50	0.35	
Lead as metallic .....	58.00	58.21	
<b>American Agricultural Chemical Company</b>			
Dry Powdered Bowkers Arsenate of Lead			
Lead arsenate .....	98.00		Passed
Arsenic as metallic .....	19.50	21.12	
Arsenic-water soluble (not more than) .....	0.50	0.33	
Lead as metallic .....	58.00	58.78	
Lead arsenate .....	98.00		Passed
Arsenic as metallic .....	19.50	23.48	
Arsenic-water soluble (not more than) .....	0.50	0.37	
Lead as metallic .....	58.00	58.46	
<b>Chipman Chemical Company, Inc.</b>			
Chipman Hi Test Lead Arsenate			
Lead arsenate .....	98.00		Passed
Arsenic as metallic .....	21.00	22.80	
Arsenic-water soluble (not more than) .....	0.35	0.35	
Lead as metallic .....	58.00	58.68	
<b>Desoto Chemical Company, Inc.</b>			
Gator Roach Hives			
Lead arsenate .....	16.20		Passed
Arsenic as metallic .....	3.50	3.83	
Arsenic-water soluble (not more than) .....	0.10	0.10	
Lead arsenate .....	16.20		Passed
Arsenic as metallic .....	3.50	4.03	
Arsenic-water soluble (not more than) .....	0.10	0.03	
Lead arsenate .....	16.20		Passed
Arsenic as metallic .....	3.50	3.71	
Arsenic-water soluble (not more than) .....	0.10	0.098	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>E. I. du Pont de Nemours and Company</b>			
Du Pont Nu Rexform Lead Arsenate			
Lead arsenate	96.00		
Arsenic as metallic	19.56	21.49	Passed
Arsenic-water soluble (not more than)	0.33	0.32	
Lead as metallic	58.00	58.72	
<b>Geigy Agricultural Chemicals</b>			
Geigy Arsenate of Lead			
Lead arsenate	98.00		
Arsenic as metallic	20.00	22.92	Passed
Arsenic-water soluble (not more than)	0.50	0.24	
Lead as metallic	58.00	58.18	
Lead arsenate	98.00		
Arsenic as metallic	20.00	24.67	Passed
Arsenic-water soluble (not more than)	0.50	0.23	
Lead as metallic	58.00	58.39	
<b>Miller Chemical and Fertilizer Corp.</b>			
Miller Arsenate of Lead			
Lead arsenate	97.00		
Arsenic as metallic	20.00	22.51	Passed
Arsenic-water soluble (not more than)	0.50	0.46	
Lead as metallic	58.00	58.38	
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Lead Arsenate			
Lead arsenate	98.00		
Arsenic as metallic	19.56	23.17	Passed
Arsenic-water soluble (not more than)	0.33	0.23	
Lead as metallic	58.00	58.78	
<b>PARIS GREEN</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Paris Green			
Copper acetoarsenite	90.00		
Arsenic as metallic	40.00	42.06	Passed
Arsenic-water soluble (not more than)	2.70	1.38	
Copper as metallic	23.00	23.02	
Copper acetoarsenite	90.00		
Arsenic as metallic	40.00	41.89	Passed
Arsenic-water soluble (not more than)	2.70	2.68	
Copper as metallic	23.00	23.50	
Copper acetoarsenite	90.00		
Arsenic as metallic	40.00	41.90	Passed
Arsenic-water soluble (not more than)	2.70	1.66	
Copper as metallic	23.00	23.38	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Allied Chemical and Dye Corporation**  
**General Chemical Division**

Orchard Brand Paris Green

Copper acetoarsenite .....	91.70		Passed
Arsenic as metallic .....	40.65	43.26	
Arsenic-water soluble (not more than).....	2.70	2.64	
Copper as metallic .....	23.00	22.50	
Copper acetoarsenite .....	91.70		Passed
Arsenic as metallic .....	40.65	43.36	
Arsenic-water soluble (not more than).....	2.70	1.34	
Copper as metallic .....	23.00	24.31	
Copper acetoarsenite .....	91.70		Passed
Arsenic as metallic .....	39.76	41.54	
Arsenic-water soluble (not more than).....	2.65	2.03	
Copper as metallic .....	22.50	24.34	

**H. G. Hutson and Sons**

Fish Dust

Copper acetoarsenite .....	3.00		Passed
Arsenic as metallic .....	1.33	1.42	
Arsenic-water soluble (not more than).....	0.036	0.18	
Copper as metallic .....		0.72	
Copper acetoarsenite .....	3.00		Passed
Arsenic as metallic .....	1.33	1.73	
Arsenic-water soluble (not more than).....	0.036	0.035	

**SODIUM ARSENATE**

**Mahaffey Company**

Mahaffey's Ant Killer

Sodium arsenate .....	6.00	3.10	Misbranded
Arsenic as metallic .....	1.00	1.25	Deficient
Sodium arsenate .....	6.00	4.89	Misbranded
Arsenic as metallic .....	1.00	1.96	Deficient

**SODIUM ARSENITE**

**Rotenone Products Company**

Antchek Ant Trap

Sodium arsenite .....	0.25		Passed
Arsenic as metallic .....	0.13	0.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>ARSENIC - COPPER</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Tomato Dust			
Basic copper arsenate	18.00		
Arsenic as metallic	4.80	4.84	
Arsenic-water soluble (not more than)	0.50	0.22	
Copper as metallic	10.00	10.92	Passed
<b>Niagara Chemical Division</b>			
<b>Food Machinery and Chemical Corp.</b>			
C.O.C.S. Cuke and Melon Dust			
Calcium arsenate	5.25		
Arsenic as metallic	1.95	2.28	
Arsenic-water soluble (not more than)	0.50	0.33	
Copper as metallic	5.00	5.45	
<b>ARSENIC - COPPER - SULFUR - ZINC</b>			
<b>Woolfolk Chemical Works, Ltd.</b>			
Pan Apple Spray			
Lead arsenate	14.80	14.17	
Arsenic as metallic	3.20	3.06	
Arsenic-water soluble (not more than)	0.20	0.17	
Copper as metallic	3.50	3.64	
Sulfur	41.00	40.70	
Zinc as metallic	5.00	5.10	
<b>ARSENIC - METALDEHYDE</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Bug-Geta Snail Pellets			
Calcium arsenate	5.00		
Arsenic as metallic	1.88	2.52	
Metaldehyde	2.00	2.67	
Calcium arsenate	5.00		
Arsenic as metallic	1.88	2.39	
Metaldehyde	3.25	3.52	
<b>ARSENIC - SULFUR - ZINC</b>			
<b>Woolfolk Chemical Works, Ltd.</b>			
Pan Peach Spray			
Lead arsenate	11.50		
Arsenic as metallic	2.40	2.57	
Arsenic-water soluble (not more than)	0.20	0.18	
Sulfur	34.00	34.74	
Zinc as metallic	9.60	10.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Pan Peach Spray (Continued)</b>			
Lead arsenate .....	11.50		
Arsenic as metallic .....	2.40	2.61	
Arsenic-water soluble (not more than) .....	0.20	0.18	
Sulfur .....	34.00	34.25	
Zinc as metallic .....	9.60	10.39	
<b>BHC</b>			
<b>California Spray-Chemical Corp.</b>			
<b>Ortho Louse, Tick and Flea Powder</b>			
Gamma isomer of BHC .....	1.00	1.68	Passed
do .....	1.00	1.63	Passed
do .....	1.00	1.35	Passed
do .....	1.00	1.63	Passed
<b>Isotox Transplanter Solution</b>			
Gamma isomer of BHC .....	5.00	7.31	Passed
<b>Ortho BHC Wettable</b>			
Gamma isomer of BHC .....	6.00	6.09	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX 1% Lindane Dust</b>			
Gamma isomer of BHC .....	1.00	1.05	Passed
do .....	1.00	1.05	Passed
do .....	1.00	1.07	Passed
<b>Dr. L. D. LeGear Medicine Company</b>			
<b>Dr. LeGear's New Louse Powder</b>			
Gamma isomer of BHC .....	1.00	0.98	Passed
do .....	1.00	1.05	Passed
do .....	1.00	1.07	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
<b>1% Lindane Dust</b>			
Gamma isomer of BHC .....	1.00	1.20	Passed
<b>Pennsylvania Salt Manufacturing Company</b>			
<b>Penco Transplant Liquid</b>			
Gamma isomer of BHC .....	5.00	5.29	Passed
do .....	5.00	5.14	Passed
<b>BHC - CHLORANIL</b>			
<b>Polk Miller Products Corp.</b>			
<b>Sergeant's Skip-Flea Scratch Powder</b>			
Gamma isomer of BHC .....	1.00	1.01	Passed
Chloranil .....	5.00	4.93	
Perfume .....	0.20	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Sergeant's Skip-Flea Scratch Powder (Continued)			
Gamma isomer of BHC	1.00	1.15	Passed
Chloranil	5.00	4.80	
Perfume	0.20	Present	
<b>BHC - CHLORANIL - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
Polk Miller Products Corp.			
Sergeant's Skip-Flea Scratch Powder			
Gamma isomer of BHC	1.00	1.00	Passed
Chloranil	5.00	5.04	
Piperonyl butoxide	0.45	0.30	
Pyrethrins	0.045	0.042	
<b>BHC - COPPER</b>			
California Spray-Chemical Corp.			
Isotox-K 1-7 Dust			
Gamma isomer of BHC	1.00	1.00	Passed
Copper as metallic	7.00	7.17	
Niagara Chemical Division Food Machinery and Chemical Corp.			
Niagara C-O-C-S Gamkil 1 Dust			
Gamma isomer of BHC	1.00	1.02	Passed
Copper as metallic	6.00	6.42	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Cucumber and Squash Dust (with 1% Lindane)			
Gamma isomer of BHC	1.00	1.40	Passed
Copper as metallic	6.50	6.59	
Gamma isomer of BHC	1.00	1.30	Passed
Copper as metallic	6.50	6.59	
Gamma isomer of BHC	1.00	1.42	Passed
Copper as metallic	6.50	6.50	
Gamma isomer of BHC	1.00	1.75	Passed
Copper as metallic	6.50	6.19	
<b>BHC - DICHLOROPHENONE</b>			
Happy Jack, Inc.			
Happy Jack Flea-Tick Powder			
Gamma isomer of BHC	1.00		Passed
Dichlorophene	2.00		
Theoretical chlorine	1.26	1.23	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**BHC - DICHLOROPHENNE -  
HEXACHLOROPHENNE****William Cooper and Nephews, Inc.**

Coopers Pulvex Flea Powder

Gamma isomer of BHC	0.50	Passed
Dichlorophene	0.50	
Hexachlorophene	0.50	
Theoretical chlorine	0.77	0.95
Gamma isomer of BHC	0.50	Passed
Dichlorophene	0.50	
Hexachlorophene	0.50	
Theoretical chlorine	0.77	0.81
Gamma isomer of BHC	0.50	Passed
Dichlorophene	0.50	
Hexachlorophene	0.50	
Theoretical chlorine	0.77	0.82

**BHC - DICHLOROPHENNE -  
TRICHLOROPHENOL****William Cooper and Nephews, Inc.**

Cooper Pulvex Flea Powder

Gamma isomer of BHC	0.50	Passed
Dichlorophene	0.50	
Trichlorophenol	0.50	
Theoretical chlorine	0.76	0.73

**BHC - DICHLOROPHENNE - MALATHION****Happy Jack, Inc.**

Happy Jack Flea-Tick Powder

BHC	1.00	Deficient
Dichlorophene	2.00	
Malathion	2.00	0.89
Theoretical chlorine	1.26	1.31

**BHC - HEXACHLOROPHENNE -  
MERCAPTOBENZOTHIAZOLE****Westchester Veterinary Products**

Dr. Merrick's Scratchex Powder

Gamma isomer of BHC	1.00	Passed
Hexachlorophene	0.50	
Mercaptobenzothiazole	1.50	1.46
Theoretical chlorine	0.99	0.95

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>BHC - METHYLATED NAPHTHALENE - ORGANIC THIOCYANATES - PYRETHRINS</b>			
<b>Eagle Products Company</b>			
Spra-Kill Special Spray			
Gamma isomer of BHC .....	0.100	0.160	Passed
Methylated Naphthalenes .....	0.386	Present	
Thanite .....	1.250	Present	
Pyrethrins .....	0.024	0.022	
<b>BHC - METHYLENE BIS CHLOROPHENOL</b>			
<b>Greever's Inc.</b>			
Greever's Flea Powder			
Gamma isomer of BHC .....	1.00		Passed
Methylene bis chlorophenol .....	0.50		
Theoretical chlorine .....	0.86	0.95	
<b>BHC - PINE OIL</b>			
<b>Ralston Purina Company</b>			
Purina Poultry Insecticide (Roost Paint)			
Gamma isomer of BHC .....	1.50	1.64	Passed
Pine oil .....	5.00	Present	
<b>BHC - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
<b>Boyle-Midway, Inc.</b>			
Black Flag Push Button Roach and Ant Killer			
Gamma isomer of BHC .....	0.30	0.40	Passed
Piperonyl butoxide .....	0.40	0.41	
Pyrethrins .....	0.05	0.06	
<b>BHC - DDT</b>			
<b>Acme Fertilizer Company</b>			
Acme 3% BHC--5% DDT			
Gamma isomer of BHC .....	3.00	2.95	Passed
DDT .....	5.00	5.45	
Gamma isomer of BHC .....	3.00	2.85	Passed
DDT .....	5.00	5.05	
Gamma isomer of BHC .....	3.00	3.69	Passed
DDT .....	5.00	4.85	
<b>Allied Chemical and Dye Corp. General Chemical Division</b>			
3-5-0 Cotton Dust			
Gamma isomer of BHC .....	3.00	2.89	Passed
DDT .....	5.00	5.01	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b>			
Gammacide 3-5 Cotton Dust			
Gamma isomer of BHC .....	3.00	2.99	Passed
DDT .....	5.00	5.35	
Gamma isomer of BHC .....	3.00	3.11	Passed
DDT .....	5.00	5.35	
Gamma isomer of BHC .....	3.00	3.00	Passed
DDT .....	5.00	4.85	
Gamma isomer of BHC .....	3.00	2.90	Passed
DDT .....	5.00	5.23	
Gamma isomer of BHC .....	3.00	3.10	Passed
DDT .....	5.00	5.15	
Gamma isomer of BHC .....	3.00	2.97	Passed
DDT .....	5.00	4.82	
Gamma isomer of BHC .....	3.00	2.98	Passed
DDT .....	5.00	5.04	
Gammacide 3-10 Cotton Dust			
Gamma isomer of BHC .....	3.00	3.22	
DDT .....	10.00	8.37	Deficient
<b>Carolina Chemicals, Inc.</b>			
Flight Brand BHC-DDT Dust 3-5-0			
Gamma isomer of BHC .....	3.00	3.05	Passed
DDT .....	5.00	5.27	
Gamma isomer of BHC .....	3.00	3.00	Passed
DDT .....	5.00	4.95	
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 3-5-0 BHC-DDT Dust			
Gamma isomer of BHC .....	3.00	2.93	Passed
DDT .....	5.00	5.12	
Gamma isomer of BHC .....	3.00	3.03	Passed
DDT .....	5.00	5.07	
Gamma isomer of BHC .....	3.00	3.12	Passed
DDT .....	5.00	5.32	
Gamma isomer of BHC .....	3.00	3.23	Passed
DDT .....	5.00	4.91	
Gamma isomer of BHC .....	3.00	2.85	Passed
DDT .....	5.00	4.90	
Gamma isomer of BHC .....	3.00	2.88	Passed
DDT .....	5.00	5.09	
Gamma isomer of BHC .....	3.00	2.99	Passed
DDT .....	5.00	5.23	
Gamma isomer of BHC .....	3.00	2.90	Passed
DDT .....	5.00	5.04	
Gamma isomer of BHC .....	3.00	2.91	Passed
DDT .....	5.00	4.96	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Geigy Agricultural Chemicals</b>			
Geigy 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.00	
<b>Maxwell Insecticide Company</b>			
Maxwell 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.18	
<b>Naco Fertilizer Company</b> (Now: Davison Chemical Company)			
Naco Benny-Hex Cotton Dust 3-5-0			
Gamma isomer of BHC	3.00	3.57	Passed
DDT	5.00	5.81	
Gamma isomer of BHC	3.00	3.38	Passed
DDT	5.00	4.78	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.55	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.30	
Naco Benny-Hex Cotton Dust 3-10-0			
Gamma isomer of BHC	3.00	3.17	Passed
DDT	10.00	10.17	
Gamma isomer of BHC	3.00	3.15	Passed
DDT	10.00	10.16	
<b>Niagara Chemical Division</b> (Food Machinery and Chemical Corp.)			
Niagara Two-N-One Cotton Dust			
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.70	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.95	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	4.97	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.32	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	5.28	
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	4.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson 3-5-0 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	5.38	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	6.01	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.21	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	4.82	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	4.77	
Mathieson 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.23	Passed
DDT	10.00	9.77	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	10.00	9.75	
Gamma isomer of BHC	3.00	3.64	Passed
DDT	10.00	10.06	
Gamma isomer of BHC	3.00	3.16	Passed
DDT	10.00	9.87	
Gamma isomer of BHC	3.00	2.85	Deficient
DDT	10.00	9.10	
Gamma isomer of BHC	3.00	3.14	Deficient
DDT	10.00	9.13	
W. R. Peele Company, Inc.			
Pelco 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.11	Passed
DDT	5.00	5.18	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.08	
Gamma isomer of BHC	3.00	3.06	Passed
DDT	5.00	5.05	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.95	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.04	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.65	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.42	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.34	Passed
DDT	5.00	5.39	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Swift and Company</b>			
Swift's Gold Bear Cotton Dust 3-5			
Gamma isomer of BHC -----	3.00	2.63	
DDT -----	5.00	4.97	Deficient
Swift's Gold Bear Brand Cotton Dust 3-10			
Gamma isomer of BHC -----	3.00	3.09	
DDT -----	10.00	9.12	Deficient
<b>Taylor Chemical Company</b>			
Superkill 3-5 Cotton Dust (without Sulfur)			
Gamma isomer of BHC -----	3.00	3.36	Passed
DDT -----	5.00	5.27	
Gamma isomer of BHC -----	3.00	3.03	Passed
DDT -----	5.00	5.06	
Gamma isomer of BHC -----	3.00	2.86	Passed
DDT -----	5.00	4.99	
Gamma isomer of BHC -----	3.00	2.95	Passed
DDT -----	5.00	5.24	
Gamma isomer of BHC -----	3.00	2.92	Passed
DDT -----	5.00	5.00	
Gamma isomer of BHC -----	3.00	3.17	Passed
DDT -----	5.00	4.76	
Gamma isomer of BHC -----	3.00	3.11	Passed
DDT -----	5.00	4.88	
Gamma isomer of BHC -----	3.00	2.88	Passed
DDT -----	5.00	5.17	
Gamma isomer of BHC -----	3.00	3.25	Passed
DDT -----	5.00	5.25	
Gamma isomer of BHC -----	3.00	3.05	Passed
DDT -----	5.00	5.03	
Gamma isomer of BHC -----	3.00	3.20	Passed
DDT -----	5.00	5.12	
Gamma isomer of BHC -----	3.00	3.28	Passed
DDT -----	5.00	5.38	
Gamma isomer of BHC -----	3.00	3.08	Passed
DDT -----	5.00	4.95	
Gamma isomer of BHC -----	3.00	3.10	Passed
DDT -----	5.00	5.13	
Gamma isomer of BHC -----	3.00	3.22	Passed
DDT -----	5.00	5.21	
Gamma isomer of BHC -----	3.00	3.36	Passed
DDT -----	5.00	5.26	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Superkill 3-10 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.15	Deficient
DDT	10.00	7.89	
Gamma isomer of BHC	3.00	3.07	Passed
DDT	10.00	10.33	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	10.00	9.61	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	10.00	9.66	
Gamma isomer of BHC	3.00	3.21	Passed
DDT	10.00	10.15	
<b>Woolfolk Chemical Works, Ltd.</b>			
<b>Security Brand 3-5-0 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.70	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	5.94	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.18	
Gamma isomer of BHC	3.00	3.07	Passed
DDT	5.00	5.25	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.39	
<b>Security Brand 3-10-0 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.40	Passed
DDT	10.00	10.38	
<b>BHC - DDT - ARAMITE - DDD - FERBAM</b>			
<b>California Spray-Chemical Corp.</b>			
<b>Ortho Home Orchard Spray</b>			
Gamma isomer of BHC	2.00		Deficient
DDT	8.00		
Aramite	4.25		
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	8.91	
Theoretical chlorine	9.44	10.51	
Gamma isomer of BHC	2.00		Passed
DDT	8.00		
Aramite	4.25		
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	12.14	
Theoretical chlorine	9.46	9.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Ortho Home Orchard Spray (Continued)</b>			
Gamma isomer of BHC	2.00		
DDT	8.00		Deficient
Aramite	4.25		
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	9.86	
Theoretical chlorine	9.46	9.17	
<b>BHC - DDT - CAPTAN - FERBAM - SULFUR</b>			
<b>California Spray-Chemical Corp.</b>			
<b>Ortho Rose Dust</b>			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.50	
Sulfur	40.00	42.42	
Theoretical chlorine	5.88	6.20	
Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	2.40	
Sulfur	40.00	42.75	
Theoretical chlorine	5.88	6.11	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50		
Sulfur	40.00	42.95	
Theoretical chlorine	5.88	5.60	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50		
Sulfur	40.00	41.07	
Theoretical chlorine	5.88	5.60	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.65	
Sulfur	40.00	43.25	
Theoretical chlorine	5.88	6.56	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.68	
Sulfur	40.00	43.17	
Theoretical chlorine	5.88	5.94	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.60	
Sulfur	40.00	41.25	
Theoretical chlorine	5.88	6.82	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>BHC - DDT - FERBAM - ROTENONE - SULFUR</b>			
<b>Carbola Chemical Company, Inc.</b>			
Carbola Rose Dust or Spray			
Gamma isomer of BHC .....	0.50	0.48	Passed
DDT .....	5.00	5.02	
Ferric dimethyl dithiocarbamate .....	7.00	6.98	
Rotenone .....	0.75	Present	
Sulfur .....	20.00	19.56	
<b>BHC - DDT - FERBAM - SULFUR</b>			
<b>Carbola Chemical Company, Inc.</b>			
CCC Fruit Tree Spray			
Gamma isomer of BHC .....	0.50	0.69	Deficient
DDT .....	7.00	7.32	
Ferric dimethyl dithiocarbamate .....	5.00	3.57	
Sulfur .....	33.00	33.62	
<b>BHC - DDT - METHYLATED NAPHTHALENE</b>			
<b>Taylor Chemical Company</b>			
Superkill 3-5 BHC-DDT Emulsion			
Gamma isomer of BHC .....	8.70	9.46	Passed
DDT .....	14.50	16.34	
Methylated naphthalene .....	35.50	Present	
Gamma isomer of BHC .....	8.70	9.18	Passed
DDT .....	14.50	16.08	
Methylated naphthalene .....	35.50	Present	
<b>BHC - DDT - PARATHION</b>			
<b>Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)</b>			
Mathieson 3-5-1 Cotton Dust			
Gamma isomer of BHC .....	3.00	3.48	Deficient
DDT .....	5.00	8.28	
Parathion .....	1.00	0.35	
Gamma isomer of BHC .....	3.00	3.03	Passed
DDT .....	5.00	10.16	
Parathion .....	1.00	1.09	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson 3-5-1 Cotton Dust			
Gamma isomer of BHC .....	3.00	3.06	Passed
DDT .....	5.00	5.77	
Parathion .....	1.00	1.11	
Gamma isomer of BHC .....	3.00	2.90	Passed
DDT .....	5.00	5.30	
Parathion .....	1.00	0.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson 3-5-1 Cotton Dust (Continued)</b>			
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.50	
Parathion	1.00	1.03	
<b>Taylor Chemical Company</b>			
<b>Superkill 3-10-1 Cotton Dust</b>			
Gamma isomer of BHC	3.00	2.90	Passed
DDT	10.00	9.90	
Parathion	1.00	1.15	
<b>Woolfolk Chemical Works, Ltd.</b>			
<b>3-5-1 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.30	
Parathion	1.00	1.03	
<b>BHC - DDT - SULFUR</b>			
<b>Acme Fertilizer Company</b>			
<b>3% BHC-5% DDT-40% Sulfur</b>			
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	5.54	
Sulfur	40.00	38.00	
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	5.20	
Sulfur	40.00	39.22	
<b>California Spray-Chemical Corp.</b>			
<b>Gammacide 3-5-40 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	4.88	
Sulfur	40.00	43.25	
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	4.96	
Sulfur	40.00	42.27	
<b>Carolina Chemicals, Inc.</b>			
<b>Flight Brand BHC-DDT-Sulfur Dust 3-5-40</b>			
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.82	
Sulfur	40.00	41.25	
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX 3-5-40 BHC-DDT-Sulfur</b>			
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.50	
Sulfur	40.00	42.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>FCX 3-5-40 BHC-DDT-Sulfur (Continued)</b>			
Gamma isomer of BHC	3.00	3.09	Passed
DDT	5.00	5.00	
Sulfur	40.00	41.35	
<b>Niagara Chemical Division (Food Machinery and Chemical Corp.)</b>			
<b>Niagara Three-N-One Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.81	Passed
DDT	5.00	5.81	
Sulfur	40.00	42.50	
<b>Olin Mathieson Chemical Corp.</b>			
<b>Mathieson 3-5-40 Cotton Dust</b>			
Gamma isomer of BHC	3.00	3.13	Deficient
DDT	5.00	5.53	
Sulfur	40.00	35.28	
Gamma isomer of BHC	3.00	2.55	Deficient
DDT	5.00	4.44	
Sulfur	40.00	44.55	
Gamma isomer of BHC	3.00	3.01	Deficient
DDT	5.00	6.16	
Sulfur	40.00	36.00	
Gamma isomer of BHC	3.00	3.30	Passed
DDT	5.00	5.36	
Sulfur	40.00	40.07	
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 3-5-40 Dust</b>			
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.12	
Sulfur	40.00	41.40	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	5.00	4.96	
Sulfur	40.00	42.12	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.30	
Sulfur	40.00	39.58	
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.00	
Sulfur	40.00	39.63	
<b>Swift and Company</b>			
<b>Swift's Gold Bear Brand Cotton Dust 3-5-40</b>			
Gamma isomer of BHC	3.00	3.13	Deficient
DDT	5.00	5.87	
Sulfur	40.00	37.65	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	5.41	
Sulfur	40.00	38.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Taylor Chemical Company</b>			
Superkill 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.70	
Sulfur	40.00	41.25	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.94	
Sulfur	40.00	39.63	
Gamma isomer of BHC	3.00	3.47	Passed
DDT	5.00	5.35	
Sulfur	40.00	41.47	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.97	
Sulfur	40.00	40.01	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.28	
Sulfur	40.00	39.90	
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	5.32	
Sulfur	40.00	39.55	
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.50	
Sulfur	40.00	41.42	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.14	
Sulfur	40.00	40.42	
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	4.98	
Sulfur	40.00	39.92	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.00	
Sulfur	40.00	41.45	
Gamma isomer of BHC	3.00	3.26	Passed
DDT	5.00	5.31	
Sulfur	40.00	39.68	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.36	
Sulfur	40.00	40.92	
Gamma isomer of BHC	3.00	3.17	Passed
DDT	5.00	5.35	
Sulfur	40.00	40.87	
Superkill 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.57	Passed
DDT	10.00	10.66	
Sulfur	40.00	38.95	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	10.00	10.60	
Sulfur	40.00	39.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Woolfolk Chemical Works, Ltd.</b>			
3-5-40 Cotton Dust (BHC-DDT-Sulfur)			
Gamma isomer of BHC	3.00	3.26	Passed
DDT	5.00	5.33	
Sulfur	40.00	41.33	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.38	
Sulfur	40.00	40.90	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	5.81	
Sulfur	40.00	42.32	
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.33	
Sulfur	40.00	43.30	
Gamma isomer of BHC	3.00	3.19	Passed
DDT	5.00	5.67	
Sulfur	40.00	42.87	
3-10-40 Cotton Dust (BHC-DDT-Sulfur)			
Gamma isomer of BHC	3.00	3.49	Passed
DDT	10.00	10.46	
Sulfur	40.00	41.53	
<b>CAPTAN</b>			
<b>California Spray-Chemical Corp.</b>			
Orthocide 50-Wettable (50% Captan)			
Captan	50.00	50.10	Passed
do	50.00	56.11	Passed
do	50.00	52.60	Passed
do	50.00	58.11	Passed
<b>Stauffer Chemical Company</b>			
Captan 50 W			
Captan	50.00	56.11	Passed
<b>CAPTAN - NITRO PHENOLS</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Garden Fungicide			
Captan	30.00	32.05	Passed
Dinitro phenyl crotonate	2.70		
Other nitro phenols and derivatives	0.30		
Total nitrogen from nitro compounds		.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CHLORDANE</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho-Klor Chlordane Dust			
Chlordane	5.00	5.75	Passed
Ortho-Klor 10 Chlordane Dust			
Chlordane	10.00	10.29	Passed
Ortho-Klor 44 Chlordane Spray			
Chlordane	44.00	42.60	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 73% Chlordane			
Chlordane	73.00	74.57	Passed
<b>Carbola Chemical Company, Inc.</b>			
Carbola 6% Chlordane Dust			
Chlordane	6.00	5.53	Deficient
do	6.00	6.17	Passed
do	6.00	6.17	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
50% Wettable Chlordane Powder			
Chlordane	50.00	52.85	Passed
do	50.00	48.21	Passed
do	50.00	49.97	Passed
do	50.00	51.43	Passed
<b>Graham Chemical Company</b>			
Red Star Ant Dust			
Chlordane	6.00	7.29	Passed
do	6.00	6.51	Passed
Red Star 50% Chlordane (Wettable Powder)			
Chlordane	50.00	47.32	Deficient
do	50.00	49.64	Passed
<b>Greever's, Inc.</b>			
Greever's Chlordane Emulsion Concentrate			
Chlordane	45.00	45.20	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 5% Chlordane Dust			
Chlordane	5.00	4.93	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Planters Chemical Corp.</b>			
Planters 40% Wettable Chlordane			
Chlordane .....	40.00	38.57	Passed
<b>Polk Miller Products Corp.</b>			
Sergeant's Skip Bath			
Chlordane .....	0.25	0.35	Passed
<b>Rigo Manufacturing Company, Inc.</b>			
Kill-Ko 10% Chlordane Dust			
Chlordane .....	10.00	10.50	Passed
do .....	10.00	7.57	Deficient
<b>O. M. Scott and Sons Company</b>			
Cope			
Chlordane .....	9.00	9.78	Passed
Scott's Lawn and Turf Pest Control			
Chlordane .....	9.00	9.84	Passed
<b>Sears, Roebuck &amp; Company</b>			
Cross Country Ant Killer			
Chlordane .....	10.00	9.57	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 5% Chlordane Dust			
Chlordane .....	5.00	5.29	Passed
do .....	5.00	4.93	Passed
Royal Brand Wettable Chlordane 40% Concentrate			
Chlordane .....	40.00	40.28	Passed
<b>Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf 5% Chlordane Dust			
Chlordane .....	5.00	5.00	Passed
<b>Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf 5% Chlordane Dust			
Chlordane .....	5.00	5.13	Passed
do .....	5.00	5.14	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 5% Chlordane Dust			
Chlordane .....	5.00	5.04	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CHLORDANE - BHC</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Ant Powder			
Chlordane .....	2.50		Passed
Gamma isomer of BHC .....	0.50		
Theoretical chlorine .....	2.10	2.30	
<b>CHLORDANE - BHC - PYRETHRINS</b>			
<b>Esso Standard Oil Company</b>			
Flit Bug Killer			
Chlordane .....	2.00		Passed
Gamma isomer of BHC .....	0.05		
Pyrethrins .....	0.05	0.061	
Theoretical chlorine .....	1.32	1.46	
<b>CHLORDANE - BORIC ACID</b>			
<b>Heller Laboratories, Inc.</b>			
\$1000 Roach Killer			
Chlordane .....	0.20	0.18	Passed
Boric acid .....	51.00	50.96	
<b>CHLORDANE - DDT</b>			
<b>Graham Chemical Company</b>			
Red Star Ant Dust			
Chlordane .....	10.00	9.53	
DDT .....	5.00	2.90	Deficient
<b>CHLORDANE - DIELDRIN</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Lawn and Garden Granules (contains Dieldrin-Chlordane)			
Chlordane .....	1.00		Passed
Dieldrin .....	4.00		
Theoretical chlorine .....	2.86	2.79	
Ortho Ant Powder			
Chlordane .....	2.50	Present	Passed
Dieldrin .....	0.50	Present	
Theoretical chlorine .....	1.88	2.32	
Chlordane .....	2.50		Passed
Dieldrin .....	0.50		
Theoretical chlorine .....	1.88	1.96	
Chlordane .....	2.50		Passed
Dieldrin .....	0.50		
Theoretical chlorine .....	1.88	2.41	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CHLORDANE - ORGANIC THIOLYANATES</b>			
<b>Allied Drug Products Company</b>			
Magic Brand Roach and Insect Killer			
Chlordane .....	2.00	1.94	Passed
Lethane 384 Special .....	1.20	1.18	
<b>Rigo Manufacturing Company, Inc.</b>			
Kill-Ko Roach and Ant Killer			
Chlordane .....	2.50	3.63	Passed
Lethane 384 Special .....	2.70	3.31	
<b>Scott Industries</b>			
Pleezing Insect Spray			
Chlordane .....	2.00	2.09	Passed
Beta butoxy beta thiocyanato diethylether .....	1.00	1.32	
<b>Swift and Company</b>			
End-O-Pest ARC Dust			
Chlordane .....	8.00	7.43	Deficient
Lethane 384 Special .....	1.00	1.15	
Chlordane .....	8.00	7.66	Passed
Lethane 384 Special .....	1.00	1.32	
Chlordane .....	8.00	8.62	Passed
Lethane 384 Special .....	1.00	1.29	
<b>CHLORDANE - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
<b>Allied Drug Products Company</b>			
Magic Brand Bug Killer			
Chlordane .....	2.00	2.40	Passed
Piperonyl butoxide .....	0.115	.156	
Pyrethrins .....	.046	.052	
<b>The Dill Company</b>			
Dill's D-K			
Chlordane .....	2.00	2.00	Passed
Piperonyl butoxide .....	0.075	0.075	
Pyrethrins .....	0.015	0.020	
<b>Dixie-Home Stores (Now: Winn-Dixie Stores, Inc.)</b>			
Roach and Ant Killer			
Chlordane .....	2.00	2.02	Passed
Piperonyl butoxide .....	0.115	0.123	
Pyrethrins .....	0.046	0.052	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CHLORDANE - PYRETHRINS</b>			
<b>C-B Drug Company</b>			
<b>C-B Double Action Insect Spray</b>			
Chlordane	2.00	2.59	Passed
Pyrethrins	0.034	0.040	
Chlordane	2.00	2.52	Passed
Pyrethrins	0.034	0.040	
Chlordane	2.00	1.80	Deficient
Pyrethrins	0.034		
<b>Ralston Purina Company</b>			
<b>Purina Roach Spray</b>			
Chlordane	2.00	2.22	Passed
Pyrethrins	0.05	0.048	
<b>CHLORDANE - TOXAPHENE</b>			
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>SA-50 Brand Cut Worm Bait</b>			
Chlordane	1.50		Passed
Toxaphene	2.00		
Theoretical chlorine	2.30	2.60	
Chlordane	1.50		Passed
Toxaphene	2.00		
Theoretical chlorine	2.30	2.96	
<b>COPPER</b>			
<b>Allied Chemical and Dye Corp.</b>			
<b>General Chemical Division</b>			
<b>Orchard Brand Bordeaux Mixture</b>			
Copper as metallic	12.75	13.35	Passed
<b>Carbola Chemical Company, Inc.</b>			
<b>CCC Copper Dust</b>			
Copper as metallic	6.00	5.95	Passed
<b>Mike, Inc.</b>			
<b>101 Brand Tomato Dust</b>			
Copper as metallic	7.00	6.73	Passed
<b>Miller Chemical and Fertilizer Corp.</b>			
<b>Bor-Tox Copper Mixture</b>			
Copper as metallic	12.75	12.66	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand Tomato Dust			
Copper as metallic	7.00	7.57	Passed
do	7.00	7.01	Passed
do	7.00	7.19	Passed
do	7.00	7.48	Passed
SA-50 Brand Instant Copper Sulphate			
Copper as metallic	25.00	25.15	Passed
<b>Tennessee Copper Company</b>			
Copper Sulphate			
Copper as metallic	25.20	25.37	Passed
<b>CUPROUS OXIDE</b>			
<b>Rohm and Haas Company</b>			
Yellow Cuprocide			
Cuprous oxide	90.00	89.76	Passed
<b>2, 4-D</b>			
<b>Donaldson Company, Inc.</b>			
Killer-Kane Kartridge (weed killer)			
Sodium salts of 2,4-D acid	30.00		
2,4-D acid equivalent	24.60	24.20	Passed
Killer-Kane Kartridge			
Sodium salts of 2,4-D acid	34.00		
2,4-D acid equivalent	30.92	30.05	Passed
<b>The Dow Chemical Company</b>			
Dow Home Use Weed Killer			
Alkanolamine salts of 2,4-D	23.80		
2,4-D acid equivalent	14.00	14.52	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Amine 40 Weed Killer			
Di-methyl amine salt of 2,4-D acid	49.40	49.74	Passed
<b>Swift and Company</b>			
Gold Bear Brand Amine Weed Control			
Isopropyl & di-isopropanol amine salts of 2,4-D	56.00		
2,4-D acid equivalent	40.40	40.07	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>United Cooperatives, Inc.</b> (Now: Farmers Cooperative Exchange, Inc.)			
Unico 2,4-D Ester Weed Killer			
Isopropyl Ester of 2,4-D	44.00	46.34	Passed
<b>2, 4-D - 2, 4, 5-T</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Improved Weed-B-Gon			
Tetrahydrofurfuryl ester of 2,4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2,4,5-T	6.60		
Theoretical phenoxyacetic acid	9.86	10.37	
<b>O. M. Scott &amp; Sons Company</b>			
Kansel			
Propylene glycol butyl ether esters of 2,4,5-T	2.70		Passed
2,4,5-T acid equivalent	1.70	1.62	
<b>D - D</b>			
<b>Shell Chemical Corp.</b>			
Shell D-D (a soil fumigant)			
Chlorinated C <sub>3</sub> hydrocarbons	100.00		Passed
Total chlorine		56.23	
Chlorinated C <sub>3</sub> hydrocarbons	100.00		Passed
Total chlorine		54.30	
Chlorinated C <sub>3</sub> hydrocarbons	100.00		Passed
Total chlorine		57.47	
Chlorinated C <sub>3</sub> hydrocarbons	100.00		Passed
Total chlorine		57.37	
<b>DDD</b>			
<b>Acme Fertilizer Company</b>			
TDE Emulsion			
DDD	24.00	25.49	Passed
do	24.00	25.67	Passed
do	24.00	25.16	Passed
<b>Apex Chemical Company</b>			
TDE Tobacco Dust			
DDD	10.00	9.57	Passed
do	10.00	10.14	Passed
do	10.00	10.36	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b>			
<b>Orthene 3D 10% Dust</b>			
DDD	10.00	9.07	Deficient
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.29	Passed
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.72	Passed
<b>Orthene 3D 2 Spray</b>			
DDD	25.00	26.45	Passed
<b>Cape Fear Chemicals, Inc.</b>			
<b>Tiger Brand Tobacco Dust 10% TDE</b>			
DDD	10.00		Deficient
do	10.00		Adulterated*
do	10.00		Deficient
do	10.00		Adulterated*
do	10.00		Deficient
do	10.00		Adulterated*
do	10.00	10.00	Passed
do	10.00	10.22	Passed
do	10.00		Deficient
do	10.00		Adulterated*
do	10.00		Deficient
do	10.00		Adulterated*
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.50	Passed
do	10.00	10.79	Passed
<b>Tiger Brand TDE Emulsion Concentrate</b>			
DDD	25.00	25.44	Passed
do	25.00	25.20	Passed
do	25.00	27.21	Passed
do	25.00	25.36	Passed
do	25.00	25.21	Passed
do	25.00	24.84	Passed

\* DDT present.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carolina Chemicals, Inc.</b>			
Flight Brand 10% Rhothane Dust			
DDD	10.00	10.93	Passed
<b>Carter Insecticide &amp; Chemical Company, Inc.</b>			
Carolina Tobacco Dust 10% TDE			
DDD	10.00	10.64	Passed
25% TDE Emulsion Tobacco Insect Killer			
DDD	25.00	23.69	Deficient
do	25.00	24.62	Passed
do	25.00	24.38	Passed
do	25.00	25.06	Passed
do	25.00	24.42	Passed
<b>Coastal Chemical Corp.</b>			
10% TDE Dust			
DDD	10.00	10.16	Passed
<b>Daly-Herring Company</b>			
Bacco Spray Emulsion Concentrate			
DDD	25.00	26.07	Passed
do	25.00	24.73	Passed
do	25.00	24.62	Passed
<b>Davison Chemical Company</b>			
Naco 10% DDD Dust			
DDD	10.00	10.29	Passed
do	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
<b>Diamond Black Leaf Company</b>			
Black Leaf Tobacco Formula 10% Rhothane Dust			
DDD	10.00	12.00	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX TDE Dust			
DDD	10.00	9.64	Passed
do	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>FCX TDE Dust (Continued)</b>			
DDD	10.00	9.86	Passed
do	10.00	10.29	Passed
do	10.00	10.14	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	10.22	Passed
do	10.00	9.86	Passed
do	10.00	11.21	Passed
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.07	Passed
<b>Farm Service Company</b>			
<b>Champion Tobacco Spray Rhothane Emulsion</b>			
DDD	23.98	24.77	Passed
do	23.98	24.65	Passed
do	23.98	24.41	Passed
do	23.98	24.38	Passed
do	23.98	24.90	Passed
do	23.98	25.10	Passed
<b>Graham Chemical Company</b>			
<b>Graham's Red Star 10% Rhothane Dust</b>			
DDD	10.00	9.00	Deficient
do	10.00	9.14	Deficient
do	10.00	10.00	Passed
do	10.00	9.57	Passed
do	10.00	9.79	Passed
do	10.00	10.22	Passed
do	10.00	9.93	Passed
do	10.00	9.64	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	9.79	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Howerton Gowen Company, Inc.</b>			
Gowen's 10% Rhothane Dust			
DDD	10.00	10.31	Passed
<b>H &amp; M Chemical Company, Inc.</b>			
"Mo-Di" TDE 10 Dust			
DDD	10.00	8.79	Deficient
<b>Johnson Cotton Company, Inc.</b>			
Southern Quality 10% TDE Tobacco Dust			
DDD	10.00	10.11	Passed
<b>Mathieson Chemical Corp.</b> (Now: Olin Mathieson Chemical Corp.)			
Mathieson 10% Rhothane Dust			
DDD	10.00	9.86	Passed
do	10.00	11.07	Passed
25% Rhothane Spray Concentrate			
DDD	25.00	24.74	Passed
do	25.00	25.36	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 10% TDE Dust			
DDD	10.00	9.14	Deficient
do	10.00	10.07	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.07	Passed
do	10.00	10.87	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.14	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Maxwell 10% TDE Dust (Continued)</b>			
DDD	10.00	10.07	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	10.22	Passed
do	10.00	10.43	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.72	Passed
<b>Maxwell 25% Rhothane Emulsion Concentrate</b>			
DDD	25.00	24.60	Passed
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
<b>Naco 10% DDD Dust</b>			
DDD	10.00	9.93	Passed
do	10.00	9.99	Passed
do	10.00	9.64	Passed
do	10.00	10.29	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	8.66	Deficient
do	10.00	None	Misbranded*
<b>Olin Mathieson Chemical Corp.</b>			
<b>Mathieson 10% Rhothane Dust</b>			
DDD	10.00	12.28	Passed
do	10.00	9.57	Passed
do	10.00	10.43	Passed
do	10.00	10.07	Passed
do	10.00	10.14	Passed
do	10.00	10.57	Passed
do	10.00	10.50	Passed
do	10.00	10.36	Passed
do	10.00	11.00	Passed
do	10.00	10.07	Passed
do	10.00	10.43	Passed
do	10.00	10.57	Passed
do	10.00	10.93	Passed
do	10.00	10.29	Passed
do	10.00	9.72	Passed
do	10.00	11.21	Passed
do	10.00	9.72	Passed

\* Found-DDT 9.24%.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson TDE 25% Emulsifiable Concentrate</b>			
DDD	25.00	26.48	Passed
do	25.00	Neg.	Deficient
do	25.00	24.11	Misbranded*
do	25.00	26.00	Passed
do	25.00	26.91	Passed
<b>Pee Dee Chemicals, Inc.</b>			
<b>10% TDE Dust</b>			
DDD	10.00	10.79	Passed
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco Rhothane Tobacco Dust (Contains 10% TDE)</b>			
DDD	10.00	9.29	Deficient
do	10.00	10.86	Passed
do	10.00	10.43	Passed
do	10.00	9.72	Passed
do	10.00	9.72	Passed
do	10.00	10.00	Passed
do	10.00	9.50	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	10.29	Passed
do	10.00	10.14	Passed
do	10.00	9.72	Passed
do	10.00	9.64	Passed
do	10.00	10.22	Passed
do	10.00	9.72	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.86	Passed
do	10.00	10.43	Passed
do	10.00	10.22	Passed
do	10.00	10.36	Passed
do	10.00	9.72	Passed
do	10.00	10.50	Passed

\* Found-DDT 9.24%.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Planters Chemical Corp.</b>			
Planters 10% TDE Dust			
DDD	10.00	9.07	Deficient
do	10.00	9.93	Passed
do	10.00	9.93	Passed
Planters 25% TDE Emulsion Concentrate			
DDD	25.00	24.13	Passed
do	25.00	24.08	Passed
<b>Quality Chemical Corp.</b>			
10% TDE Dust			
DDD	10.00	9.29	Deficient
do	10.00	8.21	Deficient
do	10.00	8.31	Deficient
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	9.79	Passed
do	10.00	10.57	Passed
do	10.00	10.36	Passed
do	10.00	10.43	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.57	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	10.79	Passed
do	10.00	10.29	Passed
do	10.00	10.57	Passed
do	10.00	10.50	Passed
<b>Smith Seed &amp; Feed Company</b>			
Early Bird 10% DDD or TDE Dust			
DDD	10.00	9.36	Deficient
do	10.00	9.72	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand Rhothane Spray Concentrate			
DDD	23.80	24.81	Passed
do	23.80	24.50	Passed
do	23.80	24.03	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Taylor Chemical Company</b>			
Superkill Tobacco Dust (Contains 10% TDE)			
DDD	10.00	10.07	Passed
do	10.00	10.29	Passed
<b>United Cooperatives, Inc.</b>			
(Now: Farmers Cooperative Exchange, Inc.)			
Unico TDE Emulsifiable Concentrate			
DDD	25.00	24.11	Passed
do	25.00	24.81	Passed
<b>Virginia-Carolina Chemical Corp.</b>			
(Now: Diamond Black Leaf Company)			
Black Leaf Tobacco Formula 10% TDE Dust			
DDD	10.00	10.29	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 10% 3-D's Dust			
DDD	10.00	9.93	Passed
<b>DDD - PARATHION</b>			
<b>Atlas Agricultural Chemicals, Inc.</b>			
Atlas Tobacco Dust 10% TDE—Parathion 1%			
DDD	10.00	10.00	Passed
Parathion	1.00	0.95	
DDD	10.00	10.50	Passed
Parathion	1.00	0.98	
<b>California Spray-Chemical Corp.</b>			
Ortho Vapophos 3D 1-10 Dust 1% Parathion			
DDD	10.00	10.43	Passed
Parathion	1.00	1.05	
DDD	10.00	9.79	Passed
Parathion	1.00	1.07	
DDD	10.00	10.00	Passed
Parathion	1.00	1.54	
DDD	10.00	9.72	Passed
Parathion	1.00	1.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 1-10 Triple Quick Tobacco Dust			
Rhothane-Parathion			
DDD	10.00	10.57	Passed
Parathion	1.00	1.09	
<b>Carter Insecticide &amp; Chemical Company, Inc.</b>			
Carolina Tobacco Dust 10% TDE-1% Parathion			
DDD	10.00	9.64	Passed
Parathion	1.00	0.95	
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 1% Parathion-10% TDE			
DDD	10.00	10.00	Passed
Parathion	1.00	1.08	
<b>Geigy Agricultural Chemicals</b>			
Geigy 10% DDD-1% Parathion Dust			
DDD	10.00	10.43	Passed
Parathion	1.00	0.99	
<b>Mathieson Chemical Corporation (Now: Olin Mathieson Chemical Corp.)</b>			
Mathieson Tobacco Dust TDE 10% Rhothane			
1% Parathion			
DDD	10.00	10.50	Deficient
Parathion	1.00	0.86	
DDD	10.00	10.57	Passed
Parathion	1.00	1.17	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Tobacco Dust 10% Rhothane			
1% Parathion			
DDD	10.00	10.29	Passed
Parathion	1.00	1.07	
DDD	10.00	10.00	Passed
Parathion	1.00	1.17	
<b>Quality Chemical Corp.</b>			
Quality Tobacco Dust 10% Rhothane			
DDD	10.00	10.43	Passed
Parathion	1.00	1.11	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand 10% Rhothane Dust with 1% Parathion			
DDD	10.00	10.36	Passed
Parathion	1.00	1.05	
DDD	10.00	10.36	Passed
Parathion	1.00	1.00	
DDD	10.00	10.22	Passed
Parathion	1.00	1.03	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Horn Worm Dust			
DDD	5.00		
Parathion	1.00	1.25	Adulterated*
<b>Taylor Chemical Company</b>			
Superkill Tobacco Dust No. 1			
DDD	10.00		
Parathion	1.00	1.48	Passed
<b>DDT</b>			
<b>Allied Chemical and Dye Corp.</b>			
<b>General Chemical Division</b>			
Genitox S-50 50% (Wettable Spray Powder)			
DDT	50.00	49.64	Passed
<b>Boyle-Midway, Inc.</b>			
Black Flag 25% DDT Emulsion Concentrate			
DDT	25.00	24.94	Passed
<b>California Spray-Chemical Corp.</b>			
Persisto 5 Dust			
DDT	5.00	5.47	Passed
Persisto 10 Dust			
DDT	10.00	9.93	Passed
Persisto 50 Dust			
DDT	50.00	47.83	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 5% DDT Dust			
DDT	5.00	5.00	Passed
do	5.00	5.03	Passed
do	5.00	5.36	Passed
do	5.00	4.75	Passed
do	5.00	4.96	Passed
do	5.00	4.89	Passed

\* DDT present.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Tiger Brand 10% DDT Dust</b>			
DDT	10.00	8.00	Deficient
do	10.00	10.00	Passed
do	10.00	10.20	Passed
<b>C-B Drug Sales Company</b>			
<b>5% DDT Insect Spray</b>			
DDT	5.00	5.02	Passed
<b>Central Chemical Corp.</b>			
<b>Farmrite Hort Spray 50% DDT</b>			
DDT	50.00	48.92	Passed
<b>S. A. Crisp Canine Company</b>			
<b>Crisp Flea Powder</b>			
DDT	5.00	5.07	Passed
<b>Daly-Herring Company</b>			
<b>Dee Aitch 5% DDT Dust</b>			
DDT	5.00	4.82	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX 5% DDT Dust</b>			
DDT	5.00	5.18	Passed
do	5.00	5.11	Passed
do	5.00	5.11	Passed
do	5.00	5.00	Passed
do	5.00	4.96	Passed
do	5.00	5.00	Passed
do	5.00	5.00	Passed
do	5.00	5.04	Passed
<b>FCX 10% DDT Dust</b>			
DDT	10.00	8.89	Deficient
do	10.00	10.29	Passed
do	10.00	10.22	Passed
do	10.00	9.64	Passed
do	10.00	10.00	Passed
do	10.00	10.14	Passed
<b>FCX 50% Wettable Powder</b>			
DDT	50.00	52.85	Passed
do	50.00	47.50	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Florida Agricultural Supply Company</b>			
Fasco Ideal Brand 10% DDT Dust			
DDT	10.00	11.42	Passed
<b>Graham Chemical Company</b>			
Red Star 5% DDT Dust			
DDT	5.00	5.43	Passed
do	5.00	4.89	Passed
do	5.00	5.36	Passed
<b>Gulf Refining Company</b>			
Gulf Trak Moth Spray 6% DDT			
DDT	6.00	5.98	Passed
do	6.00	6.08	Passed
<b>Lebanon Chemical Corp.</b>			
Lebanon DDT-10			
DDT	10.00	10.00	Passed
<b>O. E. Linck Company, Inc.</b>			
Tat 35% DDT Solution (Concentrate)			
DDT	35.00	38.09	Passed
<b>Mathieson Chemical Corp.</b>			
Mathieson 5% DDT Dust			
DDT	5.00	5.18	Passed
do	5.00	5.14	Passed
<b>Maxwell Chemical Company, Inc.</b>			
Maxwell 5% DDT Dust			
DDT	5.00	4.89	Passed
Maxwell 10% DDT Dust			
DDT	10.00	9.93	Passed
do	10.00	9.71	Passed
<b>Mike, Inc.</b>			
101 Brand 10% DDT Dust			
DDT	10.00	9.00	Deficient
<b>Miller Chemical &amp; Fertilizer Company</b>			
Miller 50% DDT Wettable Powder			
DDT	50.00	49.28	Passed
do	50.00	48.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
Naco 5% DDT Dust			
DDT .....	5.00	5.07	Passed
do .....	5.00	4.50	Deficient
do .....	5.00	4.82	Passed
do .....	5.00	4.93	Passed
do .....	5.00	5.66	Passed
Naco 10% DDT Dust			
DDT .....	10.00	9.79	Passed
do .....	10.00	9.35	Deficient
do .....	10.00	10.29	Passed
do .....	10.00	9.86	Passed
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Niagara DDT 5% Dust			
DDT .....	5.00	5.53	Passed
Niatox 50			
DDT .....	50.00	50.00	Passed
do .....	50.00	51.77	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson DDT 5% Dust			
DDT .....	5.00	5.14	Passed
Mathieson DDT 10% Dust			
DDT .....	10.00	10.99	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 5% DDT Dust			
DDT .....	5.00	5.14	Passed
do .....	5.00	5.04	Passed
do .....	5.00	5.11	Passed
do .....	5.00	5.04	Passed
do .....	5.00	5.11	Passed
10% DDT Dust			
DDT .....	10.00	10.00	Passed
<b>Pennsylvania Salt Manufacturing Company</b>			
Knox-Out Insecticide Powder 10% DDT Dust			
DDT .....	10.00	10.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Planters Chemical Corp.</b>			
Planters 5% Truk Dust			
DDT	5.00	5.10	Passed
<b>Quality Chemical Corp.</b>			
5% DDT Dust			
DDT	5.00	5.70	Passed
do	5.00	4.71	Deficient
<b>Sears, Roebuck &amp; Company</b>			
Cross Country Insect Spray (Containing 50% DDT)			
DDT	50.00	50.71	Passed
do	50.00	50.00	Passed
<b>Smith Seed &amp; Feed Company</b>			
Old Bel't Tobacco Flea Beetle Dust (Containing 5% DDT)			
DDT	5.00	5.04	Passed
do	5.00	4.86	Passed
do	5.00	4.32	Deficient
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 5% DDT Dust			
DDT	5.00	7.86	Passed
do	5.00	5.18	Passed
do	5.00	5.29	Passed
do	5.00	5.11	Passed
SA-50 Brand 10% DDT Dust			
DDT	10.00	9.14	Deficient
do	10.00	9.00	Deficient
do	10.00	10.64	Passed
do	10.00	9.57	Passed
do	10.00	10.43	Passed
do	10.00	13.00	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.43	Passed
do	10.00	10.43	Passed
SA-50 Brand 50% Wettable DDT Spray Concentrate			
DDT	50.00	50.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Taylor Chemical Company</b>			
Superkill 50% DDT Powder Wettable			
DDT	50.00	49.64	Passed
<b>Tobacco By-Products &amp; Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf Wettable 50% DDT Powder			
DDT	50.00	48.00	Passed
<b>Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf Wettable 50% DDT Powder			
DDT	50.00	51.78	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 10% DDT Dust			
DDT	10.00	9.93	Passed
<b>DDT - ALLETHRIN - METHOXYCHLOR - ORGANIC THIOCYANATES</b>			
<b>D &amp; A Company, Inc.</b>			
Pow Aerosol Insecticide			
DDT	2.00		Passed
Allelthrin	0.10	Present	
Methoxychlor	1.00		
Thanite	1.00	Present	
Theoretical chlorine	1.31	1.29	
<b>DDT - ALLETHRIN - ORGANIC THIOCYANATES</b>			
<b>Bridgeport Brass Company</b>			
Bridgeport Bug Bomb			
DDT	2.00	2.26	Passed
Allelthrin	0.10	Present	
Beta butoxy beta thiocyanodiethyl ether	1.06	Present	
<b>Colonial Stores, Inc.</b>			
Southern Manor Aerosol Spray			
DDT	2.00	2.06	Passed
Allelthrin	1.00	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
<b>Southern Manor Insecticide Aerosol Spray</b>			
DDT	2.00	2.09	Passed
Allethrin	0.125	Present	TOC
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
Methylated aromatic petroleum derivative	5.00	Present	
DDT	2.00	2.09	Passed
Allethrin	0.125	Present	TOC
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
Methylated aromatic petroleum derivative	5.00	Present	
<b>John C. Stalfort &amp; Sons, Inc.</b>			
<b>Pleezing Aerosol Insect Bomb</b>			
DDT	2.00	2.47	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
Methylated aromatic petroleum derivative	5.00	Present	
<b>Tru-Pine Company</b>			
<b>P-51 Insect Spray</b>			
DDT	3.00	2.95	Passed
Allethrin	0.10	Present	TOC
Thanite	2.00	Present	
<b>DDT - COPPER</b>			
<b>Carbola Chemical Company, Inc.</b>			
<b>CCC 3-7 Dust</b>			
DDT	3.00	3.30	Passed
Copper as metallic	7.00	7.23	
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX Potato Dust</b>			
DDT	3.00	3.00	Passed
Copper as metallic	7.00	7.10	
<b>Mike, Inc.</b>			
<b>101 Brand Potato Dust with 5% DDT</b>			
DDT	5.00	4.53	Deficient
Copper as metallic	6.50	6.46	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
Naco 7% Copper & 3% DDT Dust			
DDT .....	3.00	2.56	Deficient
Copper as metallic .....	7.00	6.98	
DDT .....	3.00	3.04	Passed
Copper as metallic .....	7.00	7.00	
<b>Olin Mathieson Chemical Corp.</b>			
5% Potato & Tomato Dust			
DDT .....	5.00	5.14	Passed
Copper as metallic .....	7.00	7.00	
<b>Planters Chemical Corp.</b>			
Planters Dee-Kop Dust #5			
DDT .....	5.00	5.82	Passed
Copper as metallic .....	7.00	7.18	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand Potato Dust with 5% DDT			
DDT .....	5.00	5.29	Passed
Copper as metallic .....	6.50	6.55	
DDT .....	5.00	5.43	Passed
Copper as metallic .....	6.50	6.93	
DDT .....	5.00	5.43	Passed
Copper as metallic .....	6.50	6.71	
<b>DDT - COPPER - METHYL NAPHTHALENE</b>			
<b>Miller Chemical &amp; Fertilizer Corp.</b>			
Miller Tomato Dust D 1-C 7			
DDT .....	1.00	1.32	Passed
Copper as metallic .....	7.00	6.67	
Methyl naphthalene .....	2.00	Present	
<b>DDT - FERBAM</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 11.4 Ferbam & 5% DDT Dust			
DDT .....	5.00	5.18	Passed
Ferric dimethyl dithiocarbamate .....	11.40	11.22	
DDT .....	5.00	5.07	Passed
Ferric dimethyl dithiocarbamate .....	11.40	11.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Olin Mathieson Chemical Corp.</b>			
Ferbam— DDT Dust			
DDT -----	3.00	2.93	Passed
Ferric dimethyl dithiocarbamate -----	11.00	11.73	
<b>DDT - FERBAM - SULFUR</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Rose Dust			
DDT -----	5.00	5.53	Passed
Ferric dimethyl dithiocarbamate -----	7.60	7.57	
Sulfur -----	75.00	78.70	
DDT -----	5.00	5.11	Not Registered
Ferric dimethyl dithiocarbamate -----	7.00	7.40	
Sulfur -----	70.00	72.30	
<b>DDT - LEAD ARSENATE - SULFUR</b>			
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Kalo Fruit Tree Dust or Spray			
DDT -----	7.50	7.99	Passed
Lead arsenate -----	15.00		
Sulfur -----	52.00	55.70	
Arsenic as metallic -----	2.10	3.29	
Arsenic water soluble (not more than) -----	0.50	0.14	
Lead as metallic -----	10.20	11.36	
<b>B. G. Pratt Company</b>			
Pratt's Fruit Tree Spray or Dust			
DDT -----	7.50	8.14	Passed
Lead Arsenate -----	14.40		
Sulfur -----	62.00	65.36	
Arsenic as metallic -----	2.10	2.72	
Arsenic water soluble (not more than) -----	0.50	0.14	
Lead as metallic -----	10.00	11.45	
<b>DDT - METHOXYCHLOR - PARADICHLOROBENZENE</b>			
<b>Boyle-Midway, Inc.</b>			
Black Flag Moth Ded			
DDT -----	5.00		Passed
Methoxychlor -----	1.00		
Paradichlorobenzene -----	5.00	Present	
Theoretical chlorine -----	2.81	3.21	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>DDT - METHYLATED NAPHTHALENE - ORGANIC THIOCYANATES</b>			
<b>Boyle-Midway, Inc.</b>			
<b>Black Flag Insect Spray (DDT 5%)</b>			
DDT .....	5.00	5.33	Passed
Methylated naphthalenes .....	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether .....	1.00	Present	
DDT .....	5.00	5.32	Passed
Methylated naphthalenes .....	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether .....	1.00	Present	
DDT .....	5.00	5.80	Passed
Methylated naphthalenes .....	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether .....	1.00	Present	
<b>DDT - ORGANIC THIOCYANATES</b>			
<b>Rigo Manufacturing Company, Inc.</b>			
<b>Kill-Ko Flea &amp; Insect Powder 10% DDT</b>			
DDT .....	10.00	8.79	Deficient
Beta beta dithiocyanodiethyl ether .....	0.50	Present	
DDT .....	10.00	10.00	Passed
Beta beta dithiocyanodiethyl ether .....	0.50	Present	
<b>DDT - PARATHION - SULFUR</b>			
<b>California Spray-Chemical Corp.</b>			
<b>Persistophos-S 5-1.5-25 Dust</b>			
DDT .....	5.00	5.11	Passed
Parathion .....	1.50	1.56	
Sulfur .....	25.00	25.55	
DDT .....	5.00	5.11	Passed
Parathion .....	1.50	1.68	
Sulfur .....	25.00	27.50	
<b>Florida Agricultural Supply Company</b>			
<b>Fasco Ideal Parathion DDT Suldust 1.5-5-30</b>			
DDT .....	5.00	4.92	Passed
Parathion .....	1.50	1.68	
Sulfur .....	30.00	30.28	
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>1 1/2% Parathion Dust with 5% DDT</b>			
DDT .....	5.00	4.57	Deficient
Parathion .....	1.50	1.49	
Sulfur .....	25.00	22.38	
DDT .....	5.00	5.50	Passed
Parathion .....	1.50	1.76	
Sulfur .....	25.00	26.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>1 1/2% Parathion Dust with 5% DDT (Continued)</b>			
DDT	5.00	5.07	Passed
Parathion	1.50	1.82	
Sulfur	25.00	26.86	
<b>DDT - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>Unico Household Spray</b>			
DDT	0.25	0.27	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.026	
<b>United Cooperatives, Inc.</b>			
<b>(Now: Farmers Cooperative Exchange, Inc.)</b>			
<b>Unico Household Spray</b>			
DDT	0.25	0.35	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.025	
DDT	0.25	0.27	Passed
Piperonyl butoxide	0.20	0.24	
Pyrethrins	0.02	0.024	
DDT	0.25	0.24	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.026	
<b>DDT - METHYLATED NAPHTHALENES - PYRETHRINS - SESAME OIL</b>			
<b>Pennsylvania Salt Manufacturing Company</b>			
<b>Knox Out Insect Spray</b>			
DDT	5.00	5.50	Passed
Methylated Naphthalenes	6.00	Present	
Pyrethrins	0.02	0.026	
Sesame oil	0.08	Present	
<b>DDT - PYRETHRINS</b>			
<b>Dr. L. D. LeGear Medicine Company</b>			
<b>Dr. LeGear's Flea &amp; Tick Powder 10% DDT</b>			
DDT	10.00	9.50	Passed
Pyrethrins	0.5	0.42	
DDT	10.00	9.57	Passed
Pyrethrins	0.50	0.48	
DDT	10.00	9.50	Passed
Pyrethrins	0.50	0.49	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Metro Chemical Company</b>			
Metro DDT Insect Powder (Contains 10% DDT with Pyrethrins)			
DDT	10.00	11.00	Not Registered
Pyrethrins	5.00	0.082	
<b>DDT - TOXAPHENE</b>			
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Niagara Toxakill 10 Niatox 5 Dust			
DDT	5.00	4.79	Passed
Toxaphene	10.00	9.65	
<b>DIELDRIN</b>			
<b>Boyle-Midway, Inc.</b>			
Antrol Lawntrol (with Dieldrin)			
Dieldrin	2.50	2.54	Passed
<b>Taylor Chemical Company</b>			
Superkill 15% Dieldrin Emulsifiable Concentrate			
Dieldrin	15.80	16.15	Passed
<b>Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf 5% Dieldrin Granular Insecicide			
Dieldrin	5.00	6.20	Passed
<b>ENDRIN</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Endrin 1.5 Dust			
Endrin	1.50	1.70	Passed
do	1.50	1.61	Passed
do	1.50	1.85	Passed
Ortho Endrin 1.6 Spray			
Endrin	19.50	20.73	Passed
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Endrin Dust			
Endrin	1.50	1.74	Passed
<b>Coastal Chemical Corp.</b>			
1.5% Endrin Dust			
Endrin	1.50	1.95	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Daly-Herring Company</b>			
Dee Aitch Endrin Emulsifiable Concentrate			
Endrin .....	19.50	20.12	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 1 1/2% Endrin Dust			
Endrin .....	1.50	1.70	Passed
do .....	1.50	1.64	Passed
<b>Farm Service Company</b>			
Champion Endrin Emulsifiable Concentrate			
Endrin .....	19.50	20.25	Passed
do .....	19.50	19.94	Passed
<b>Mathieson Chemical Corp.</b> (Now: Olin Mathieson Chemical Corp.)			
Mathieson Endrin 1.5% Dust			
Endrin .....	1.50	1.60	Passed
Mathieson Endrin 1.6 Emulsifiable Concentrate			
Endrin .....	18.48	21.10	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 1 1/2% Endrin Dust			
Endrin .....	1.50	1.79	Passed
do .....	1.50	1.74	Passed
do .....	1.50	1.64	Passed
<b>Olin Mathieson Chemical Corporation</b>			
Mathieson Endrin 1.5% Dust			
Endrin .....	1.50	2.72	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 1% Endrin Dust			
Endrin .....	1.00	1.39	Passed
do .....	1.00	1.80	Passed
do .....	1.00	1.16	Passed
do .....	1.00	1.22	Passed
do .....	1.00	1.10	Passed
Pelco Endrin Emulsifiable Concentrate			
Endrin .....	19.50	19.16	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Planters Chemical Corporation</b>			
Planters 1½% Endrin Dust			
Endrin .....	1.50	1.69	Passed
do .....	1.50	1.79	Passed
do .....	1.50	1.58	Passed
do .....	1.50	1.69	Passed
<b>Quality Chemical Corp.</b>			
1% Endrin Dust			
Endrin .....	1.00	1.27	Passed
do .....	1.00	1.14	Passed
1½% Endrin Dust			
Endrin .....	1.50	2.27	Passed
do .....	1.50	1.83	Passed
<b>Southern Agricultural Chemicals, Inc.</b>			
1.5% Endrin Dust			
Endrin .....	1.50	1.88	Passed
Royal Brand Endrin Emulsifiable Concentrate			
Endrin .....	19.50	19.04	Passed
do .....	19.50	20.00	Passed
<b>Taylor Chemical Company</b>			
Superkill 1½% Endrin Dust			
Endrin .....	1.50	1.55	Passed
do .....	1.50	1.66	Passed
do .....	1.50	1.79	Passed
Superkill Endrin Emulsifiable Concentrate			
Endrin .....	19.50	21.68	Passed
<b>United Cooperatives, Inc.</b> (Now: Farmers Cooperative Exchange, Inc.)			
Unico Endrin Emulsifiable Concentrate			
Endrin .....	18.90	20.44	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
2% Endrin Cotton Dust			
Endrin .....	2.00	2.15	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>ETHYLENE DICHLORIDE</b>			
<b>Taylor Chemical Company</b>			
Superkill Ethylene Dichloride Emulsion			
Ethylene dichloride .....	85.00	82.50	Passed
<b>ETHYLENE DICHLORIDE - CARBON TETRACHLORIDE</b>			
<b>United Cooperatives, Inc.</b> (Now: Farmers Cooperative Exchange, Inc.)			
Unico Grain Fumigant			
Ethylene dichloride .....	70.00	69.87	Passed
Carbon tetrachloride .....	30.00	30.13	
Ethylene dichloride .....	70.00	70.53	Passed
Carbon tetrachloride .....	30.00	29.47	
Ethylene dichloride .....	70.00	70.20	Passed
Carbon tetrachloride .....	30.00	29.80	
Ethylene dichloride .....	70.00	72.18	Passed
Carbon tetrachloride .....	30.00	27.82	
<b>West Disinfecting Company</b>			
Westofume			
Ethylene dichloride .....	75.00	76.77	Passed
Carbon tetrachloride .....	25.00	23.23	
<b>FERBAM</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Nu-Leaf 15 Dust			
Ferric dimethyl dithiocarbamate .....	11.40	11.18	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 15% Fermate Dust			
Ferric dimethyl dithiocarbamate .....	11.40	10.97	Passed
do .....	11.40	11.80	Passed
do .....	11.40	11.51	Passed
<b>Carolina Chemicals, Inc.</b>			
Flight Brand 15% Fermate Dust			
Ferric dimethyl dithiocarbamate .....	11.40	11.52	Passed
<b>Daly-Herring Company</b>			
Dee Aitch 15% Fermate Dust			
Ferric dimethyl dithiocarbamate .....	11.40	11.73	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Davison Chemical Company</b>			
Naco Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	10.97	Passed
<b>E. I. du Pont de Nemours and Company</b>			
Du Pont Fermate			
Ferric dimethyl dithiocarbamate	76.00	76.00	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Ferbam Dust No. 10			
Ferric dimethyl dithiocarbamate	11.40	11.59	Passed
do	11.40	11.38	Passed
do	11.40	11.59	Passed
do	11.40	11.39	Passed
do	11.40	11.59	Passed
do	11.40	11.29	Passed
do	11.40	11.31	Passed
do	11.40	11.10	Passed
<b>Geigy Agricultural Chemicals</b>			
Geigy Ferbam Dust for Tobacco Blue Mold			
Ferric dimethyl dithiocarbamate	11.40	11.40	Passed
<b>Graham Chemical Company</b>			
Red Star Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	10.97	Passed
do	11.40	10.97	Passed
do	11.40	10.97	Passed
do	11.40	11.18	Passed
do	11.40	11.18	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	12.01	Passed
do	11.40	11.80	Passed
do	11.40	11.80	Passed
do	11.40	12.42	Passed
do	11.40	12.42	Passed
do	11.40	11.80	Passed
do	11.40	11.31	Passed
do	11.40	11.52	Passed
<b>Miller Chemical and Fertilizer Corporation</b>			
Blue Mold Dust			
Ferric dimethyl dithiocarbamate	10.50	10.89	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	12.01	Passed
do	11.40	11.39	Passed
do	11.40	12.14	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	12.35	Passed
<b>Quality Chemical Corp.</b>			
Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.50	Passed
do	11.40	11.59	Passed
do	11.40	13.46	Passed
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.51	Passed
do	11.40	11.72	Passed
<b>Taylor Chemical Company</b>			
Superkill 11.4 Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.52	Passed
do	11.40	12.00	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.52	Passed
do	11.40	11.52	Passed
<b>FERBAM - PARATHION</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 11.4% Ferbam and 1% Parathion Dust			
Ferric dimethyl dithiocarbamate	11.40	11.10	Passed
Parathion	1.00	0.95	
Ferric dimethyl dithiocarbamate	11.40	12.02	Passed
Parathion	1.00	1.13	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>FUMARIN</b>			
<b>Sanitation Products Company</b>			
Bait Tox			
Fumarin .....	0.025	0.025	Passed
do .....	0.025	0.033	Passed
do .....	0.025	0.039	Passed
do .....	0.025	0.036	Passed
Bait Tox for Rats (Containing Fumarin)			
Fumarin .....	0.50	0.47	Passed
<b>FLUORINE COMPOUNDS</b>			
<b>SODIUM FLUOALUMINATE</b>			
<b>Aluminum Company of America</b>			
Alcoa cryolite (Insecticide)			
Sodium fluoaluminate .....	90.00	88.89	Passed
<b>SODIUM FLUORIDE</b>			
<b>Ralston Purina Company</b>			
Purina Lice Powder			
Sodium fluoride .....	35.00	35.43	Passed
<b>SODIUM FLUOSILICATE</b>			
<b>Shepard's Chemical Works</b>			
Shepard's Roach Killer			
Sodium fluosilicate .....	60.00	73.14	Passed
<b>FLUORINE - DDT</b>			
<b>Union Drug Company (Now: Walgreen Company)</b>			
Roach Pizen			
Sodium fluoride .....	50.00	51.50	Passed
DDT .....	10.00	10.28	
<b>HEPTACHLOR</b>			
<b>Maxwell Insecticide Company, Inc.</b>			
Heptachlor Cotton Dust 2 1/2-0-0			
Heptachlor .....	2.50	3.82	Passed
do .....	2.50	3.71	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Taylor Chemical Company</b>			
Superkill 23% Heptachlor Emulsifiable Concentrate			
Heptachlor	23.41	23.49	Passed
<b>HEPTACHLOR - DDT</b>			
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Heptachlor 2.5-5-0 Cotton Dust			
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	5.00	
<b>Taylor Chemical Company</b>			
Superkill 2½-5 Heptachlor Cotton Dust			
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	6.25	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	5.29	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	4.87	
<b>MALATHION</b>			
<b>Allied Drug Products Company</b>			
Allied Brand Fly Bait			
Malathion	3.00	4.05	Passed
do	3.00	4.18	Passed
<b>Black Panther Company, Inc.</b>			
Black Panther Fly Bait			
Malathion	2.00	2.44	Passed
<b>California Spray-Chemical Corp.</b>			
Ortho Malathion 4 Dust			
Malathion	4.00	4.03	Passed
do	4.00	3.99	Passed
Ortho Malathion 50 Spray			
Malathion	50.00	51.36	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 4% Malathion Dust			
Malathion	4.00	4.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>The d-Con Company, Inc.</b>			
d-Con Fli-Con Ready Mix			
Malathion .....	2.00	2.44	Passed
<b>Eagle Products Company</b>			
Spra-kill Fly Crumbs			
Malathion .....	1.00	0.95	Passed
do .....	1.00	1.33	Passed
<b>Florida Agricultural Supply Company</b>			
Fasco Fly Flakes			
Malathion .....	1.00	1.26	Passed
do .....	1.00	1.14	Passed
do .....	1.00	1.33	Passed
do .....	1.00	1.44	Passed
do .....	1.00	1.39	Passed
<b>Graham Chemical Company</b>			
Red Star Fly Crystals			
Malathion .....	2.00	1.95	Passed
<b>Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)</b>			
Mathieson 4% Malathion Dust			
Malathion .....	4.00	3.60	Deficient
do .....	4.00	3.50	Deficient
<b>Miller Chemical and Fertilizer Corp.</b>			
Hy-Tox Fly Bait			
Malathion .....	2.00	3.12	Passed
do .....	2.00	2.95	Passed
Hy-tox Insect Dust			
Malathion .....	4.00	4.14	Passed
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Malathion 25 (Wettable)			
Malathion .....	25.00	29.56	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Malathion Emulsifiable Concentrate			
Malathion .....	55.00	55.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Pesticide Distributing Company</b>			
Bait Tox Fly Killer			
Malathion .....	2.00	0.58	Not Registered
<b>Ralston Purina Company</b>			
Purina Fly Bait			
Malathion .....	2.00	2.48	Passed
<b>Rigo Manufacturing Company, Inc.</b>			
Kill-Ko Fly Bait			
Malathion .....	2.00	1.66	Deficient
do .....	2.00	1.90	Passed
do .....	2.00	1.58	Deficient
Kill-Ko Malathion 5% Dust			
Malathion .....	5.00	5.00	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 4% Malathion Dust			
Malathion .....	4.00	4.56	Passed
SA 50 Brand 5% Malathion Dust			
Malathion .....	5.00	4.48	Deficient
do .....	5.00	5.38	Passed
do .....	5.00	5.16	Passed
<b>Swift and Company</b>			
End-O-Pest Garden Spray with Malathion			
Malathion .....	50.00	53.10	Passed
<b>Taylor Chemical Company</b>			
Superkill 55% Malathion Emulsifiable Concentrate			
Malathion .....	55.00	59.37	Passed
<b>MALATHION - SULFUR</b>			
<b>Davison Chemical Company</b>			
Naco 4% Malathion and 50% Sulfur Dust			
Malathion .....	4.00	4.54	Passed
Sulfur .....	50.00	49.80	
Malathion .....	4.00	4.49	Passed
Sulfur .....	50.00	49.20	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mike, Inc.</b>			
101 Brand Malathion Dust with Sulfur			
Malathion	4.00	3.26	Deficient
Sulfur	18.00	18.91	
Malathion	4.00	3.18	Deficient
Sulfur	18.00	18.40	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 Brand 4% Malathion Dust			
Malathion	4.00	3.54	Deficient
Sulfur	25.00	26.43	
Malathion	4.00	4.09	Passed
Sulfur	25.00	26.38	
Malathion	4.00	4.57	Passed
Sulfur	25.00	24.51	
SA 50 Brand Pole Bean Dust			
Malathion	4.00	4.28	Passed
Sulfur	70.00	73.70	
<b>MANEB</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 1.4% Maneb Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.50	Passed
do	1.40	1.70	Passed
do	1.40	1.79	Passed
<b>Graham Chemical Company</b>			
2% "Dithane" M-22 Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.70	Passed
do	1.40	1.70	Passed
do	1.40	1.61	Passed
do	1.40	1.70	Passed
<b>Olin Mathieson Chemical Corp</b>			
Maneb 1.4% Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.82	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco Manzate Maneb Tobacco Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.70	Passed
<b>Planters Chemical Corp.</b>			
Planters Manzate Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.79	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 Brand Manzate Dust			
Manganese ethylene bisdithiocarbamate	5.60	5.79	Passed
<b>METHOXYCHLOR</b>			
<b>E. I. du Pont de Nemours &amp; Company</b>			
Du Pont Dairy Cattle Spray (Wettable powder)			
Methoxychlor	50.00	52.85	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 5% Methoxychlor Dust			
Methoxychlor	5.00	5.21	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 10% Marlate Dust			
Methoxychlor	5.00	5.53	Passed
do	5.00	5.29	Passed
do	5.00	5.82	Passed
<b>METHOXYCHLOR - BHC - FERBAM - ZIRAM</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Botano Deluxe Garden Dust			
Methoxychlor	5.00	Present	Passed
Gamma isomer of BHC	1.00		
Ferric dimethyl dithiocarbamate	3.00	2.88	
Zinc dimethyl dithiocarbamate	3.00	2.99	
Theoretical chlorine	2.27	2.22	
<b>METHOXYCHLOR - BHC - SULFUR</b>			
<b>Ralston Purina Company</b>			
Purina Insect Killer			
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00	11.26	
Theoretical chlorine	1.13	1.32	
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00		
Theoretical chlorine	1.13	2.47	
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00	10.86	
Theoretical chlorine	1.13	1.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Insect Killer (Continued)			
Methoxychlor .....	2.50		Passed
Gamma isomer of BHC from Lindane .....	0.50		
Sulfur .....	10.00	11.74	
Theoretical chlorine .....	1.13	1.60	
<b>METHOXYCHLOR - COPPER</b>			
<b>E. I. du Pont de Nemours &amp; Company</b>			
Du Pont Tomato Dust			
Methoxychlor .....	5.00	5.43	Passed
Copper .....	6.75	7.20	
<b>METHOXYCHLOR - DICHLOROPHENNE - HEXACHLOROPHENNE - MALATHION</b>			
<b>Pet Chemicals, Inc.</b>			
Holiday Flea-Stop			
Methoxychlor .....	2.00	Present	Deficient
Dichlorophene .....	2.00		
Hexachlorophene .....	1.00		
Malathion .....	2.00	1.90	
Theoretical chlorine .....	1.67	0.96	
Methoxychlor .....	2.00	Neg.	Deficient
Dichlorophene .....	2.00	Neg.	Misbranded
Hexachlorophene .....	1.00	Neg.	
Malathion .....	2.00	3.09	
Theoretical chlorine .....	1.67		
<b>METHOXYCHLOR - FERBAM - SULFUR</b>			
<b>E. I. du Pont de Nemours &amp; Company</b>			
Du Pont Fruit Tree Spray			
Methoxychlor .....	12.50	13.54	Passed
Ferric dimethyl dithiocarbamate .....	15.20	16.40	
Sulfur .....	24.20	27.03	
<b>METHOXYCHLOR - MALATHION</b>			
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 33 Dust			
Methoxychlor .....	3.00	2.32	Deficient
Malathion .....	3.00	2.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>METHOXYCHLOR - METHYLENE BISCHLOROPHENOL - PYRETHRINS</b>			
<b>Pet Products, Inc.</b>			
Flea-mitt			
Methoxychlor .....	5.00	Trace	Deficient
Methylene bischlorophenol .....	2.00		
Pyrethrins .....	0.4	Negative	
Theoretical chlorine .....	2.06	0.74	
<b>METHOXYCHLOR - ORGANIC THIOLYANATES - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Fly Spray			
Methoxychlor .....	0.50	0.50	Passed
Thanite .....	0.30	Present	
Piperonyl butoxide .....	0.50	0.58	
Pyrethrins .....	0.05	0.06	
<b>Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf Fly Spray			
Methoxychlor .....	0.50	0.58	Passed
Thanite .....	1.405	Present	
Piperonyl butoxide .....	0.10	0.09	
Pyrethrins .....	0.012	0.020	
<b>METHOXYCHLOR - PIPERONYL BUTOXIDE - PYRETHRINS</b>			
<b>United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)</b>			
Unico Pressurized Cattle Spray			
Methoxychlor .....	3.00	2.95	Passed
Piperonyl butoxide .....	2.00	2.25	
Pyrethrins .....	0.20	0.21	
Unico Household Aerosol			
Methoxychlor .....	3.00	3.23	Passed
Piperonyl butoxide .....	0.60	0.66	
Pyrethrins .....	0.24	0.27	
<b>Gulf Oil Corp.</b>			
Quick Action Gulf Spray			
Methoxychlor .....	0.75	0.87	Passed
Piperonyl butoxide .....	0.12	0.14	
Pyrethrins .....	0.10	0.098	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>METHOXYPYRETHRINS</b>			
<b>Cook Chemical Company</b>			
Real-kill Fly & Mosquito Killer			
Methoxychlor .....	0.50	0.55	Passed
Pyrethrins .....	0.05	0.052	
Methoxychlor .....	0.50	0.54	Passed
Pyrethrins .....	0.05	0.051	
Methoxychlor .....	0.50	0.54	Passed
Pyrethrins .....	0.05	0.052	
<b>MH - 30</b>			
<b>Allied Chemical and Dye Corp.</b>			
General Chemical Division			
Orchard Brand MH-30 Tobacco Sucker Inhibitor			
Diethanolamine salt of maleic hydrazide .....	58.00	58.35	Passed
<b>California Spray-Chemical Corp.</b>			
Orho MH-30 Spray			
Diethanolamine salt of maleic hydrazide .....	58.00	58.73	Passed
do .....	58.00	60.28	Passed
do .....	58.00	60.28	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell MH-30			
Diethanolamine salt of maleic hydrazide .....	58.00	58.97	Passed
<b>Naugatuck Chemical Company</b> (Now: U. S. Rubber Company)			
MH-30			
Diethanolamine salt of maleic hydrazide .....	58.00	58.24	Passed
<b>Olin Mathieson Chemical Corp.</b>			
MH-30			
Diethanolamine salt of maleic hydrazide .....	58.00	59.58	Passed
do .....	58.00	58.93	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco MH-30			
Diethanolamine salt of maleic hydrazide .....	58.00	60.40	Passed
<b>PARATHION</b>			
<b>California Spray-Chemical Corp.</b>			
Vapophos 1 Dust			
Parathion .....	1.00	1.24	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 1% Parathion Dust			
Parathion	1.00	1.03	Passed
do	1.00	0.95	Passed
do	1.00	0.95	Passed
do	1.00	1.02	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell's 1% Parathion Dust			
Parathion	1.00	0.98	Passed
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Niagara Phos-kil Spray			
Parathion	15.00	15.28	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 1% Parathion Dust			
Parathion	1.00	1.04	Passed
do	1.00	1.05	Passed
do	1.00	1.08	Passed
<b>Planters Chemical Corp.</b>			
Planters 1% Parathion Dust			
Parathion	1.00	1.05	Passed
<b>Quality Chemical Corp.</b>			
1% Parathion Dust			
Parathion	1.00	1.03	Passed
do	1.00	0.96	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 2% Parathion Dust			
Parathion	2.00	2.46	Passed
do	2.00	2.58	Passed
<b>Taylor Chemical Company</b>			
Superkill 1% Parathion Dust			
Parathion	1.00	1.52	Passed
do	1.00	1.07	Passed
Superkill 15% Parathion (Wettable)			
Parathion	15.00	16.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>PARATHION - SULFUR</b>			
<b>California Spray-Chemical Corp.</b>			
Vapophos-S 3.75-70 Wettable			
Parathion	3.75	3.95	Passed
Sulfur	70.00	69.25	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 Brand 2% Parathion with Sulfur			
Parathion	2.00	2.33	Passed
Sulfur	25.00	25.25	
<b>Taylor Chemical Company</b>			
Superkill Peach Dust			
Parathion	1.50	1.83	Passed
Sulfur	80.00	81.90	
Superkill Peach Spray No. 2			
Parathion	3.70	4.18	Passed
Sulfur	75.00	78.95	
<b>PHENOLS - BHC - NEUTRAL OILS</b>			
<b>Carbola Chemical Company, Inc.</b>			
Carbola Disinfecting White Paint			
Phenols	1.60	1.50	Passed
Gamma isomer of BHC	0.335	0.400	
Neutral oils	1.40	2.22	
Phenols	1.60	1.53	Passed
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.34	
Phenols	1.60	1.63	Passed
Gamma isomer of BHC	0.335	0.430	
Neutral oils	1.40	1.49	
Phenols	1.60	1.30	Deficient
Gamma isomer of BHC	0.335	0.320	
Neutral oils	1.40	2.32	
Phenols	1.60	1.02	Deficient
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.89	
Phenols	1.60	1.12	Deficient
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.76	
Phenols	1.60	1.32	Deficient
Gamma isomer of BHC	0.335	0.404	
Neutral oils	1.40	1.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carbola Disinfecting White Paint (Continued)</b>			
Phenols	1.60	1.22	Deficient
Gamma isomer of BHC	0.335	0.480	
Neutral oils	1.40	2.43	
Phenols	1.60	1.26	Deficient
Gamma isomer of BHC	0.335	0.450	
Neutral oils	1.40	1.58	
Phenols	1.60	0.92	Deficient
Gamma isomer of BHC	0.335	0.410	
Neutral oils	1.40	1.04	
Phenols	1.60	1.32	Deficient
Gamma isomer of BHC	0.335	0.460	
Neutral oils	1.40	1.94	
<b>PINE OIL</b>			
<b>Carroll Chemical Company</b>			
<b>Pine Oil Disinfectant</b>			
Pine oil	80.00	80.53	Passed
<b>Coastal Chemical Corp.</b>			
<b>Pineaire Pine Oil Disinfectant</b>			
Pine oil	80.00	79.20	Passed
<b>PINE OIL - ORGANIC THIOCYANATES</b>			
<b>William Cooper and Nephews, Inc.</b>			
<b>Pulvex Flea Soap</b>			
Pine oil	4.00	Present	Passed
Lethane 384 Special	2.00	2.09	
<b>PIVAL</b>			
<b>Dr. Hess &amp; Clark, Inc.</b>			
<b>Dr. Hess Rat &amp; Mouse Killer (Water soluble)</b>			
Sodium salt of 2-pivalyl-1,3 indandione	0.14	0.14	Passed
do	0.14	0.13	Passed
<b>Ralston Purina Company</b>			
<b>Purina Rat Control</b>			
Sodium salt of 2-pivalyl-1,3 indandione	0.14	0.14	Passed
do	0.14	0.14	Passed
<b>Tobacco By-Products &amp; Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
<b>Black Leaf Mouse Killer Bait</b>			
2-pivalyl-1,3-indandione	0.025	0.020	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>PYRETHRINS</b>			
<b>Dr. L. D. LeGear Medicine Company</b>			
Dr. LeGear's Insect Powder			
Pyrethrins	0.50	0.51	Passed
do	0.50	0.54	Passed
<b>McCormick and Company, Inc.</b>			
Bee Brand Insect Powder			
Pyrethrins	0.75	0.79	Passed
do	0.75	0.82	Passed
do	0.75	0.75	Passed
<b>PYRETHRINS - ALLETHRIN</b>			
<b>Boyle-Midway, Inc.</b>			
Dwin			
Pyrethrins	0.40	Present	Passed
Allethrins	0.10	Present	
<b>PYRETHRINS - COPPER - PIPERONYL CYCLONENE</b>			
<b>Planters Chemical Corp.</b>			
Planters Cuke and Melon Dust			
Pyrethrins	0.400	0.038	Passed
Copper as metallic	5.00	4.80	
Piperonyl cyclonene	0.50	Present	
<b>PYRETHRINS - DICHLOROPHENNE - PIPERONYL BUTOXIDE</b>			
<b>Nusco Products, Inc.</b>			
4-T Pet Deodorant			
Pyrethrins	0.067	0.073	Deficient
Dichlorophene	5.000	1.070	
Piperonyl butoxide	0.667	Present	
<b>PYRETHRINS - DIELDRIN</b>			
<b>Cook Chemical Company</b>			
Push Button Real Kill Bug Killer			
Pyrethrins	0.046	0.050	Passed
Dieldrin	0.500	0.510	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>PYRETHRINS - METHYL NAPHTHALENE -</b>			
<b>PERFUME - SESAME</b>			
<b>Pioneer Manufacturing Company</b>			
Actrite De-Moth			
Pyrethrins .....	0.049	0.058	Passed
Methyl naphthalene .....	1.889	Present	
Perfume .....	1.000	Present	
Sesame .....	0.185	Present	
<b>PYRETHRINS - PERFUME - SESAME</b>			
<b>The Dill Company</b>			
Dill Spray			
Pyrethrins .....	0.05	0.056	Passed
Perfume .....	0.25	Present	
Sesame .....	0.19	Present	
Pyrethrins .....	0.05	0.06	Passed
Perfume .....	0.25	Present	
Sesame .....	0.19	Present	
<b>PYRETHRINS - PIPERONYL BUTOXIDE</b>			
<b>S. C. Johnson and Sons, Inc.</b>			
Raid Insect Spray			
Pyrethrins .....	0.075	0.080	Passed
Piperonyl butoxide .....	0.150	0.160	
<b>U. S. Industrial Chemicals, Inc.</b>			
<b>(Now: Fairfield Chemical Division)</b>			
Pyrenone Grain Protectant			
Pyrethrins .....	0.05	0.049	Passed
Piperonyl butoxide .....	0.80	0.78	
<b>PYRETHRINS - PIPERONYL BUTOXIDE -</b>			
<b>PIPERONYL CYCLONENE</b>			
<b>Hinton &amp; Company, Inc.</b>			
Mit E Kill Insect Control			
Pyrethrins .....	0.375	0.340	Passed
Piperonyl butoxide .....	1.890	1.800	
Piperonyl cyclonene .....	0.335	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>PYRETHRINS - PIPERONYL BUTOXIDE - TERPENE POLYCHLORINATES</b>			
<b>Colgate-Palmolive Company</b>			
Kan-kil Bug Killer			
Pyrethrins	0.20	0.21	Passed
Piperonyl butoxide	0.50	0.59	
Terpene polychlorinates	2.00	Present	
Pyrethrins	0.20	0.25	Passed
Piperonyl butoxide	0.50	0.60	
Terpene polychlorinates	2.00	Present	
Theoretical chlorine		1.49	
<b>ROTENONE</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Garden Guard			
Rotenone	1.00	1.09	Passed
<b>California Spray-Chemical Corp.</b>			
Botano R1 Dust 1% Rotenone			
Rotenone	1.00	0.77	Deficient
do	1.00	1.06	Passed
do	1.00	1.29	Passed
do	1.00	1.34	Passed
do	1.00	1.25	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 1% Rotenone Dust			
Rotenone	1.00	1.12	Passed
do	1.00	0.79	Passed
do	1.00	0.86	Passed
<b>Central Chemical Corp.</b>			
Ro Dust "100" 1% Rotenone			
Rotenone	1.00	0.86	Passed
<b>Chemical Formulators, Inc.</b>			
Chem Form Brand .75% Rotenone			
Rotenone	0.75	0.65	Not Registered
<b>William Cooper and Nephews, Inc.</b>			
Pulvex Dry Shampoo			
Rotenone	0.1	Present	Passed

Manufacturers and Brands	Batch No.	Manufacture Date	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Daly-Herring Company</b>					
Dee Aitch 1.00% Rotenone Dust					
Rotenone			1.00	0.92	Passed
do			1.00	1.04	Passed
<b>Farmers Cooperative Exchange, Inc.</b>					
FCX Rotox 100 Dust					
Rotenone			1.00	1.12	Passed
do			1.00	1.08	Passed
do			1.00	1.11	Passed
do			1.00	1.11	Passed
do			1.00	1.02	Passed
do			1.00	1.06	Passed
do			1.00	1.08	Passed
do			1.00	1.03	Passed
do			1.00	1.16	Passed
do			1.00	1.12	Passed
do			1.00	1.12	Passed
do			1.00	1.12	Passed
<b>J. M. Harris and Company, Inc.</b>					
Copper Dragon					
Rotenone			0.75	.80	Passed
<b>Lebanon Chemical Corp.</b>					
RO-Spray "400" 4% Rotenone Wettable Powder					
Rotenone			4.00	3.23	Passed
do			4.00	3.22	Passed
do			4.00	3.50	Passed
<b>Mathieson Chemical Corp.</b> (Now: Olin Mathieson Chemical Corp.)					
Mathieson Rotenone 1% Dust					
Rotenone			1.00	1.17	Passed
<b>McCormick and Company, Inc.</b>					
Bee Brand Ant Killer					
Rotenone			5.00	4.94	Passed
<b>Miller Chemical and Fertilizer Corp.</b>					
V-75 (A Dust Containing 0.75% Rotenone)					
Rotenone			0.75	0.86	Passed
do			0.75	0.75	Passed
do			0.75	0.69	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>V-75 (A Dust Containing 0.75% Rotenone) (Continued)</b>			
Rotenone	0.75	0.70	Passed
do	0.75	0.65	Passed
<b>Miller Dust (Containing 1% Rotenone)</b>			
Rotenone	1.00	1.03	Passed
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
<b>Naco 1% Rotenone Dust</b>			
Rotenone	1.00	0.98	Passed
<b>Sears, Roebuck and Company</b>			
<b>Cross Country Insect Dust (Containing Rotenone)</b>			
Rotenone	0.75	0.73	Passed
do	0.75	0.76	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>SA 50 Cattle Grub and Lice Powder</b>			
Rotenone	1.50	1.36	Passed
<b>Whitmire Research Laboratories, Inc.</b>			
<b>Whitmire's Ticks-off Insect Repellent Bomb</b>			
Rotenone	0.108	Present	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
<b>Security Brank 1% Rotenone Dust</b>			
Rotenone	1.00	0.90	Passed
<b>ROtenone - COPPER - DDT - SULFUR</b>			
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>SA 50 Brand Pole Bean Dust</b>			
Rotenone	1.00	0.84	Deficient
Copper as metallic	3.00	2.98	
DDT	3.00	3.22	
Sulfur	60.00	55.66	
<b>ROtenone - COPPER - ORGANIC THIOLYANATES</b>			
<b>Carbola Chemical Company, Inc.</b>			
<b>CCC Copper Rote</b>			
Rotenone	0.40	0.18	Deficient
Copper as metallic	6.00	6.24	
Beta thiocyanato ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CCC Copper Rose (Continued)</b>			
Rotenone	0.40	0.32	Passed
Copper as metallic	6.00	5.82	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
<b>Rigo Manufacturing Company, Inc.</b>			
<b>Kill-Ko 3 in 1 Garden Dust</b>			
Rotenone	0.75	0.58	Passed
Copper as metallic	4.00	6.69	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.37	Present	
Rotenone	0.75	0.68	Passed
Copper as metallic	4.00	6.69	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.37	Present	
<b>ROtenone - DDT - FERBAM - SULFUR - ZIRAM</b>			
<b>United Cooperatives, Inc.</b> (Now: Farmers Cooperative Exchange, Inc.)			
<b>Unico Floral Spray Powder</b>			
Rotenone	1.00	Present	Deficient
DDT	5.00	4.49	
Ferric dimethyl dithiocarbamate	3.80	3.79	
Sulfur	30.00	26.02	
Zinc dimethyl dithiocarbamate	3.50	4.30	
<b>ROtenone - DDT - SULFUR</b>			
<b>Graham Chemical Company</b>			
<b>Red Star Rotenone Dust</b>			
Rotenone	1.00	0.97	Passed
DDT	3.00	3.22	
Sulfur	15.00	20.33	
Rotenone	1.00	0.80	Passed
DDT	3.00	3.37	
Sulfur	15.00	18.64	
Rotenone	1.00	0.96	Passed
DDT	3.00	2.93	
Sulfur	15.00	17.72	
<b>ROtenone - DICHLOROPHENe - HEXACHLOROPHENe</b>			
<b>The Hilo Company</b>			
<b>Hilo Flea and Fungus Powder</b>			
Rotenone	1.20	1.18	Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theoretical chlorine	0.39	0.43	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>ROtenone - FERbam - METHOXYCHLOR - ZIRAM</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme All Round Dust			
Rotenone	0.75	Present	Passed
Ferric dimethyl dithiocarbamate	4.00	3.95	
Methoxychlor	5.00	4.86	
Zinc dimethyl dithiocarbamate	4.00	4.06	
Rotenone	0.75	Present	Passed
Ferric dimethyl dithiocarbamate	4.00	4.23	
Methoxychlor	5.00	4.86	
Zinc dimethyl dithiocarbamate	4.00	4.67	
<b>ROtenone - FERbam - NICOTINE - PYRETHRINS</b>			
<b>Virginia-Carolina Chemical Corp.</b> (Now: Diamond Black Leaf Company)			
Black Leaf Multi-Purpose Garden Dust			
Rotenone	1.00	Present	Deficient
Ferric dimethyl dithiocarbamate	7.60	6.69	
Nicotine	1.00	0.98	
Pyrethrins	0.10	0.10	
<b>ROtenone - FLUORINE - ORGANIC THIOCYANATES - SULFUR</b>			
<b>Carbola Chemical Company, Inc.</b>			
CCC Louse Killer			
Rotenone	0.40	0.44	Deficient
Sodium fluosilicate	10.00	7.01	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.43	
Rotenone	0.40	0.30	Deficient
Sodium fluosilicate	10.00	7.99	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.95	
Rotenone	0.40	0.37	Deficient
Sodium fluosilicate	10.00	6.72	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.73	
Rotenone	0.40	0.33	Deficient
Sodium fluosilicate	10.00	6.86	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.93	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>CCC Louse Killer (Continued)</b>			
Rotenone	0.40	Present	Deficient
Sodium fluosilicate	10.00	7.68	
Beta thiocyanogen ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.71	
<b>ROtenone - METHoxychlor</b>			
<b>Pratt Food Company</b>			
<b>Pratt's Lice Killer</b>			
Rotenone	1.00	0.80	
Methoxychlor	0.50	0.65	Passed
<b>ROtenone - NAPHTHALENE - PYRETHRINS</b>			
<b>Carolina Chemicals, Inc.</b>			
<b>Py-Ro Cattle Grub and Louse Powder</b>			
Rotenone	1.50	1.38	
Naphthalene	7.00	6.95	
Pyrethrins	0.09	0.085	
<b>ROtenone - ORGANIC THIOCYANATES - SULFUR</b>			
<b>Black Panther Company, Inc.</b>			
<b>Black Panther Dust</b>			
Rotenone	0.75	0.72	Deficient
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	8.76	
Rotenone	0.75	1.04	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	10.95	
Rotenone	0.75	0.84	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	9.73	
Rotenone	0.75	0.77	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	10.68	
Rotenone	0.75	0.91	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	10.41	
Rotenone	0.75	0.55	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	14.66	
Rotenone	0.75	0.69	
Beta beta dithiocyanogen diethyl ether	0.20	Present	
Sulfur	10.00	9.58	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Parrott Chemical Company</b>			
Lucky Strike Kill Guard Formula #700			
Rotenone	0.75	0.61	Passed
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	2.00	Present	
Sulfur	15.00	15.91	
<b>ROTIENONE - PINE OIL</b>			
<b>The Hilo Company</b>			
Hilo Dip			
Rotenone	1.00	Present	Passed
Pine oil	71.00	73.85	
<b>ROTIENONE - PIPERONYL CYCLONENE - PYRETHRINS</b>			
<b>Boyle-Midway, Inc.</b>			
Black Flag Flea, Tick, and Louse Powder			
Rotenone	0.50	0.50	Passed
Piperonyl cyclonene	1.00	Present	
Pyrethrins	0.10	0.10	
Rotenone	0.50	0.48	Passed
Piperonyl cyclonene	1.00	Present	
Pyrethrins	0.10	0.09	
<b>ROTIENONE - PIPERONYL CYCLONENE - PYRETHRINS - SULFUR</b>			
<b>Planters Chemical Corp.</b>			
Planters P.D.Q. Bean and Garden Dust			
Rotenone	0.40	0.36	Deficient
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.028	
Sulfur	10.00	9.35	
Rotenone	0.40	0.44	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.033	
Sulfur	10.00	10.30	
Rotenone	0.40	0.29	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.037	
Sulfur	10.00	9.80	
<b>ROTIENONE - PYRETHRINS - SULFUR</b>			
<b>Carolina Chemicals, Inc.</b>			
Flight Brand 1% Rotenone			
Rotenone	1.00	0.91	Passed
Pyrethrins	0.03	0.035	
Sulfur	15.00	16.60	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand Mexican Bean Beetle Control			
(Rotenone and Pyrethrins)			
Rotenone	0.50	0.56	Passed
Pyrethrins	0.035	Present	
Sulfur	18.00	18.40	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA 50 for Mexican Bean Beetle Control			
Rotenone	0.50	0.45	Passed
Pyrethrins	0.04	0.041	
Sulfur	18.00	18.76	
Rotenone	0.50	0.58	Passed
Pyrethrins	0.04	0.052	
Sulfur	18.00	18.80	
SA 50 Brand For Mexican Bean Beetle Control			
Rotenone	0.50	0.37	Deficient
Pyrethrins	0.08	Negative	
Sulfur	18.00	18.85	
Rotenone	0.50	0.37	Deficient
Pyrethrins	0.08	Negative	
Sulfur	18.00	16.90	
Rotenone	0.50	0.51	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	18.69	
Rotenone	0.50	0.45	Passed
Pyrethrins	0.08	0.083	
Sulfur	18.00	17.82	
Rotenone	0.50	0.50	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	19.13	
Rotenone	0.50	0.49	Passed
Pyrethrins	0.08	0.084	
Sulfur	18.00	18.31	
Rotenone	0.50	0.55	Passed
Pyrethrins	0.08	0.085	
Sulfur	18.00	19.12	
SA 400 Mexican Bean Beetle Control			
Rotenone	0.50	0.44	Passed
Pyrethrins	0.10	0.11	
Sulfur	18.00	19.23	
Rotenone	0.50	0.39	Passed
Pyrethrins	0.10	0.11	
Sulfur	18.00	19.60	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>SA 100 Mexican Bean Beetle Control</b>			
Rotenone	1.00	0.84	Deficient
Pyrethrins	0.08	0.083	
Sulfur	18.00	16.81	
Rotenone	1.00	0.98	Passed
Pyrethrins	0.08	0.078	
Sulfur	18.00	18.79	
Rotenone	1.00	1.01	Passed
Pyrethrins	0.08	0.085	
Sulfur	18.00	19.45	
Rotenone	1.00	0.92	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	18.46	
Rotenone	1.00	0.85	Passed
Pyrethrins	0.08	0.84	
Sulfur	18.00	18.95	
Rotenone	1.00	0.89	Passed
Pyrethrins	0.08	0.084	
Sulfur	18.00	18.47	
<b>Spratt's Patent, Ltd.</b>			
<b>Spratt's Flea and Insect Powder</b>			
Rotenone	0.25	0.11	Deficient
Pyrethrins	0.80	0.77	
Sulfur	25.00	20.75	
<b>ROtenone - PYRETHRINS - SULFUR - ZINEB</b>			
<b>Swift and Company</b>			
<b>Endo pest 3-way Garden Dust</b>			
Rotenone	1.00	0.88	Passed
Pyrethrins	0.10	0.14	
Sulfur	10.00	10.54	
Zinc ethylene bisdithiocarbamate	3.25	4.35	
Rotenone	1.00	0.75	Deficient
Pyrethrins	0.10	0.10	
Sulfur	10.00	10.07	
Zinc ethylene bisdithiocarbamate	3.25	4.29	
Rotenone	1.00	1.08	Passed
Pyrethrins	0.10	0.08	
Sulfur	10.00	11.25	
Zinc ethylene bisdithiocarbamate	3.25	4.12	
<b>ROtenone - SULFUR</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX Rotex No. 100 plus Sulfur</b>			
Rotenone	1.00	1.00	Not Registered
Sulfur	40.00	45.50	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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## FCX Rotox No. 100 plus Sulfur (Continued)

			Not Registered
Rotenone	1.00	0.98	
Sulfur	40.00	42.52	
<b>Special FCX Rotox 160 plus Sulfur</b>			
Rotenone	1.60	1.68	Passed
Sulfur	45.00	46.42	
Rotenone	1.60	1.62	Passed
Sulfur	45.00	46.90	

## Graham Chemical Company

## Graham's Red Star 1% Rotenone Dust

Rotenone	1.00	1.00	Passed
Sulfur	15.00	17.87	
Rotenone	1.00	0.88	Passed
Sulfur	15.00	19.34	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	15.81	
Rotenone	1.00	0.95	Passed
Sulfur	15.00	17.80	
Rotenone	1.00	1.05	Passed
Sulfur	15.00	17.34	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	17.10	
Rotenone	1.00	0.92	Passed
Sulfur	15.00	17.21	
Rotenone	1.00	0.89	Passed
Sulfur	15.00	17.81	
Rotenone	1.00	0.96	Passed
Sulfur	15.00	17.70	
Rotenone	1.00	1.06	Passed
Sulfur	15.00	17.24	
Rotenone	1.00	1.00	Passed
Sulfur	15.00	19.38	
Rotenone	1.00	1.01	Passed
Sulfur	15.00	19.58	

## J. M. Harris and Company, Inc.

## Blue Dragon Dust

Rotenone	0.75	0.92	Passed
Sulfur	10.00	10.32	
Rotenone	0.75	0.84	Passed
Sulfur	10.00	10.60	
Rotenone	0.75	0.86	Passed
Sulfur	10.00	10.61	
Rotenone	0.75	0.67	Passed
Sulfur	10.00	10.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Blue Dragon Dust (Continued)</b>			
Rotenone	0.75	0.73	Passed
Sulfur	10.00	10.02	Passed
Rotenone	0.75	0.85	Passed
Sulfur	10.00	10.00	Passed
Rotenone	0.75	0.63	Passed
Sulfur	10.00	11.15	Passed
Rotenone	0.75	0.61	Passed
Sulfur	10.00	10.37	Passed
Rotenone	0.75	0.69	Passed
Sulfur	10.00	10.87	Passed
Rotenone	0.75	0.66	Passed
Sulfur	10.00	10.05	Passed
Rotenone	0.75	0.94	Passed
Sulfur	10.00	9.68	Passed
Rotenone	0.75	0.78	Passed
Sulfur	10.00	10.18	Passed
Rotenone	0.75	0.71	Passed
Sulfur	10.00	10.00	Passed
<b>Sam Houston Company</b>			
<b>Rotenone 50-S</b>			
Rotenone	0.50	0.47	Passed
Sulfur	87.50	89.45	Passed
<b>Houston's Rotenone Sulfur Talc</b>			
Rotenone	0.75	0.56	Passed
Sulfur	10.00	10.85	Passed
Rotenone	0.75	0.71	Passed
Sulfur	10.00	9.88	Passed
Rotenone	0.75	0.72	Passed
Sulfur	10.00	10.00	Passed
<b>Sam Houston 100-S</b>			
Rotenone	1.00	0.82	Passed
Sulfur	75.00	82.10	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
<b>Maxwell 1% Rotenone Dust</b>			
Rotenone	1.00	0.88	Passed
Sulfur	15.00	15.44	Passed
Rotenone	1.00	1.02	Passed
Sulfur	15.00	16.34	Passed
Rotenone	1.00	0.81	Passed
Sulfur	15.00	15.71	Passed
Rotenone	1.00	0.88	Passed
Sulfur	15.00	16.24	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Maxwell 1% Rotenone Dust (Continued)</b>			
Rotenone	1.00	1.14	Passed
Sulfur	15.00	15.97	
Rotenone	1.00	1.09	Passed
Sulfur	15.00	15.53	
Rotenone	1.00	1.07	Passed
Sulfur	15.00	15.40	
<b>Maxwell Cattle Grub and Louse Powder</b>			
Rotenone	1.50	1.68	Passed
Sulfur	65.00	67.10	
Rotenone	1.50	1.38	Passed
Sulfur	65.00	65.50	
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 1% Rotenone Dust</b>			
Rotenone	1.00	1.02	
Sulfur	15.00	75.25	Misbranded
<b>Seacoast Laboratories, Inc.</b>			
<b>Twin Light 1% Dustall Rotenone</b>			
Rotenone	1.00	1.12	Passed
Sulfur	3.00	3.83	
Rotenone	1.00	0.97	Passed
Sulfur	3.00	3.04	
Rotenone	1.00	1.20	Passed
Sulfur	3.00	4.14	
Rotenone	1.00	1.18	Passed
Sulfur	3.00	2.87	
Rotenone	1.00	0.96	Passed
Sulfur	3.00	3.60	
Rotenone	1.00	1.01	Passed
Sulfur	3.00	3.91	
Rotenone	1.00	0.96	Passed
Sulfur	3.00	4.01	
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>SA-50 Brand No. 75 Mexican Bean Beetle Dust</b>			
Rotenone	0.75	0.75	
Sulfur	18.00	18.75	Passed
<b>Wyatt-Quarles Seed Company</b>			
<b>Wyatt's 1% Rotenone Dust</b>			
Rotenone	1.00	1.15	
Sulfur	15.00	15.55	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Job P. Wyatt and Sons Company (Now: Wyatt-Quarles Seed Company)</b>			
Wyatt's 1% Rotenone Dust			
Rotenone	1.00	1.10	Passed
Sulfur	15.00	15.38	
Rotenone	1.00	0.88	Passed
Sulfur	15.00	15.55	
<b>ROTENONE - SULFUR - ZIRAM</b>			
<b>Swift and Company</b>			
End-O-Pest 3-Way Garden Defense			
Rotenone	1.25	1.07	Passed
Sulfur	15.00	15.94	
Zinc dimethyl dithiocarbamate	4.00	5.38	
Rotenone	1.25	1.18	Passed
Sulfur	15.00	16.14	
Zinc dimethyl dithiocarbamate	4.00	5.47	
<b>SABADILLA</b>			
<b>Carolina Chemicals, Inc.</b>			
Sabadilla Dust			
Sabadilla alkaloids	0.80	0.98	Passed
<b>Daly-Herring Company</b>			
Dee Aitch 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.83	Passed
do	0.80	0.90	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Saba-Dil # 10			
Sabadilla alkaloids	0.40	0.51	Passed
do	0.40	0.40	Passed
FCX Saba-Dil # 20			
Sabadilla alkaloids	0.80	0.80	Passed
<b>Graham Chemical Company</b>			
Graham's Red Star 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.69	Deficient
do	0.80	0.66	Deficient
do	0.80	0.95	Passed
do	0.80	0.77	Passed
do	0.80	0.86	Passed
do	0.80	1.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>J. M. Harris &amp; Company, Inc.</b>			
Dragon Sabadilla Dust			
Sabadilla alkaloids .....	0.80	1.04	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	1.05	Passed
do .....	0.80	0.87	Passed
do .....	0.80	0.79	Passed
do .....	0.80	0.82	Passed
do .....	0.80	0.81	Passed
<b>Pearson &amp; Company</b>			
Red Devil Dust			
Sabadilla alkaloids .....	0.80	0.90	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.93	Passed
do .....	0.80	0.76	Passed
<b>Quality Chemical Corp.</b>			
Sabadilla 20% Dust			
Sabadilla alkaloids .....	0.88	0.89	Passed
do .....	0.88	0.95	Passed
<b>Seacoast Laboratories, Inc.</b>			
Twin Light Sabadust 20%			
Sabadilla alkaloids .....	0.80	1.09	Passed
do .....	0.80	1.10	Passed
<b>Standard Fertilier Company (Now: Olin Mathieson Chemical Corp.)</b>			
Sabadilla 20% Dust			
Sabadilla alkaloids .....	0.88	0.88	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Sabane Dust			
Sabadilla alkaloids .....	0.80	0.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Job P. Wyatt and Sons Company (Now: Wyatt-Quarles Seed Company)</b>			
Wyatt's 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.86	Passed
do .....	0.80	0.91	Passed
do .....	0.80	0.99	Passed
do .....	0.80	0.93	Passed
<b>Wyatt-Quarles Seed Company</b>			
Wyatt-Quarles 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.81	Passed
do .....	0.80	0.86	Passed
do .....	0.80	0.83	Passed
do .....	0.80	0.85	Passed
<b>TOXAPHENE</b>			
<b>Acme Fertilizer Company</b>			
Acme 20% Toxaphene			
Toxaphene .....	20.00	19.86	Passed
do .....	20.00	21.43	Passed
<b>Apex Chemical Company</b>			
Apex Toxaphene "20" Dust			
Toxaphene .....	20.00	18.86	Deficient
do .....	20.00	20.57	Passed
do .....	20.00	19.72	Passed
<b>California Spray-Chemical Corp.</b>			
Alltox 20 Dust			
Toxaphene .....	20.00	20.29	Passed
do .....	20.00	20.00	Passed
do .....	20.00	20.57	Passed
do .....	20.00	20.72	Passed
do .....	20.00	20.72	Passed
do .....	20.00	21.29	Passed
do .....	20.00	20.57	Passed
do .....	20.00	19.86	Passed
do .....	20.00	19.57	Passed
Alltox 6 Spray			
Toxaphene .....	58.50	59.01	Passed
do .....	58.50	60.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 10% Toxaphene Dust			
Toxaphene	10.00	11.93	Passed
do	10.00	10.43	Passed
do	10.00	10.29	Passed
Tiger Brand 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.57	Passed
do	20.00	19.43	Passed
do	20.00	20.29	Passed
do	20.00	19.14	Passed
do	20.00	19.00	Passed
do	20.00	20.29	Passed
do	20.00	19.72	Passed
do	20.00	19.14	Passed
do	20.00	18.86	Deficient
do	20.00	18.57	Deficient
do	20.00	20.14	Passed
do	20.00	5.16	Deficient* Adulterated
do	20.00	20.57	Passed
do	20.00	19.57	Passed
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Toxaphene Dust 20-0			
Toxaphene	20.00	20.43	Passed
<b>Carter Insecticide &amp; Chemical Company</b>			
20% Toxaphene Cotton Dust			
Toxaphene	20.00	20.14	Passed
do	20.00	19.72	Passed
Carolina Toxaphene Emulsion Concentrate			
Toxaphene	60.00	60.85	Passed
<b>Daly-Herring Company</b>			
Dee Aitch 20% Toxaphene Cotton Dust			
Toxaphene	20.00	20.43	Passed
<b>Davison Chemical Company</b>			
Naco 20% Toxaphene Dust			
Toxaphene	20.00	20.00	Passed

\* DDT Present

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 20-0 Toxaphene Dust			
Toxaphene .....	20.00	19.72	Passed
do .....	20.00	20.00	Passed
do .....	20.00	19.57	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.86	Passed
do .....	20.00	19.86	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.72	Passed
do .....	20.00	20.00	Passed
do .....	20.00	19.86	Passed
do .....	20.00	20.43	Passed
do .....	20.00	20.14	Passed
do .....	20.00	19.57	Passed
<b>Howerton Gowen Company, Inc.</b>			
Gowen's 20% Toxaphene Dust			
Toxaphene .....	20.00	19.72	Passed
do .....	20.00	20.86	Passed
<b>Johnson Cotton Company, Inc.</b>			
Southern Quality 20% Toxaphene Dust			
Toxaphene .....	20.00	19.72	Passed
<b>Kirby Chemical Company, Inc.</b>			
Red Kay 20% Toxaphene Cotton Dust			
Toxaphene .....	20.00	19.72	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 10% Toxaphene Dust			
Toxaphene .....	10.00	10.22	Passed
do .....	10.00	10.29	Passed
do .....	10.00	9.86	Passed
do .....	10.00	10.64	Passed
Maxwell 20% Toxaphene Dust			
Toxaphene .....	20.00	19.72	Passed
do .....	20.00	19.43	Passed
do .....	20.00	20.00	Passed
do .....	20.00	19.57	Passed
do .....	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Maxwell 20% Toxaphene Dust (Continued)</b>			
Toxaphene	20.00	20.72	Passed
do	20.00	20.14	Passed
do	20.00	19.57	Passed
do	20.00	19.43	Passed
do	20.00	21.00	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	19.72	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	19.86	Passed
do	20.00	20.57	Passed
do	20.00	20.00	Passed
do	20.00	20.29	Passed
do	20.00	20.57	Passed
<b>Naco Fertilizer Company (Now: Davison Chemical Company)</b>			
<b>Naco 10% Toxaphene Dust</b>			
Toxaphene	10.00	10.36	Passed
<b>Naco Toxaphene Cotton Dust 20-0</b>			
Toxaphene	20.00	19.00	Passed
<b>Niagara Chemical Division Food Machinery and Chemical Corp.</b>			
Toxakil 20 Dust	20.00	19.72	Passed
Toxaphene	20.00	19.15	Deficient
<b>Olin Mathieson Chemical Corp.</b>			
<b>Mathieson Toxaphene "20" Dust</b>			
Toxaphene	20.00	18.15	Deficient
do	20.00	17.71	Deficient
do	20.00	20.14	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.57	Passed
do	20.00	19.86	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	19.84	Passed
do	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson Toxaphene "20" Dust (Continued)</b>			
Toxaphene	20.00	20.14	Passed
do	20.00	19.57	Passed
do	20.00	19.00	Passed
do	20.00	19.25	Passed
do	20.00	20.29	Passed
do	20.00	20.00	Passed
do	20.00	20.71	Passed
do	20.00	20.29	Passed
do	20.00	20.14	Passed
do	20.00	20.29	Passed
<b>Toxaphene Emulsifiable Liquid 6 pounds</b>			
Toxaphene	60.50	58.98	Passed
do	60.50	61.22	Passed
do	60.50	58.89	Passed
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 10% Toxaphene Dust</b>			
Toxaphene	10.00	9.72	Passed
do	10.00	9.50	Passed
<b>Pelco 20% Toxaphene Dust</b>			
Toxaphene	20.00	18.00	Deficient
do	20.00	18.29	Deficient
do	20.00	20.00	Passed
do	20.00	20.29	Passed
do	20.00	19.72	Passed
do	20.00	19.57	Passed
do	20.00	19.78	Passed
do	20.00	19.43	Passed
do	20.00	19.43	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	20.14	Passed
do	20.00	20.57	Passed
do	20.00	20.00	Passed
do	20.00	20.00	Passed
do	20.00	19.43	Passed
do	20.00	19.14	Passed
do	20.00	20.29	Passed
do	20.00	20.72	Passed
do	20.00	20.00	Passed
do	20.00	21.00	Passed
do	20.00	20.14	Passed
do	20.00	19.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Pelco 20% Toxaphene Dust (Continued)</b>			
Toxaphene .....	20.00	20.14	Passed
do .....	20.00	19.86	Passed
do .....	20.00	20.43	Passed
do .....	20.00	19.57	Passed
do .....	20.00	20.43	Passed
do .....	20.00	21.15	Passed
do .....	20.00	20.00	Passed
do .....	20.00	20.57	Passed
do .....	20.00	20.43	Passed
do .....	20.00	20.14	Passed
<b>Pennsylvania Salt Manufacturing Company</b>			
<b>Penco Toxaphene E-6</b>			
Toxaphene .....	60.00	61.46	Passed
do .....	60.00	61.88	Passed
<b>Planters Chemical Corp.</b>			
<b>Planters 20% Toxaphene Dust</b>			
Toxaphene .....	20.00	19.72	Passed
do .....	20.00	19.57	Passed
do .....	20.00	19.00	Passed
do .....	20.00	19.86	Passed
do .....	20.00	20.93	Passed
do .....	20.00	20.29	Passed
do .....	20.00	19.29	Passed
do .....	20.00	19.72	Passed
<b>Quality Chemical Corp.</b>			
<b>20% Toxaphene Dust</b>			
Toxaphene .....	20.00	15.99	Deficient
do .....	20.00	19.43	Passed
do .....	20.00	19.43	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.14	Passed
do .....	20.00	19.57	Passed
do .....	20.00	20.14	Passed
do .....	20.00	20.29	Passed
do .....	20.00	20.29	Passed
do .....	20.00	19.72	Passed
do .....	20.00	20.43	Passed
do .....	20.00	19.14	Passed
do .....	20.00	19.23	Passed
do .....	20.00	19.86	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.57	Passed
do .....	20.00	19.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA Brand Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene .....	10.00	10.72	Passed
20% Toxaphene Dust			
Toxaphene .....	20.00	20.00	Passed
do .....	20.00	19.72	Passed
<b>Stauffer Chemical Company</b>			
Stauffer 20% Toxaphene Dust			
Toxaphene .....	20.00	20.00	Passed
<b>Taylor Chemical Company</b>			
Superkill 20% Toxaphene Dust (without Sulfur)			
Toxaphene .....	20.00	20.14	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.72	Passed
do .....	20.00	19.77	Passed
do .....	20.00	19.43	Passed
do .....	20.00	19.00	Passed
do .....	20.00	19.29	Passed
<b>Taylor Chemical Company</b>			
Superkill 60% Toxaphene Emulsifiable Concentrate			
Toxaphene .....	60.00	61.90	Passed
do .....	60.00	61.73	Passed
do .....	60.00	61.13	Passed
do .....	60.00	61.27	Passed
do .....	60.00	59.84	Passed
do .....	60.00	62.25	Passed
do .....	60.00	60.36	Passed
<b>United Cooperatives, Inc.</b> (Now: Farmers Cooperative Exchange, Inc.)			
Toxaphene Emulsifiable Concentrate			
Toxaphene .....	60.00	61.69	Passed
do .....	60.00	60.78	Passed
do .....	60.00	59.37	Passed
do .....	60.00	61.15	Passed
<b>Virginia-Carolina Chemical Corp.</b> (Now: Diamond Black Leaf Company)			
Black Leaf 20% Toxaphene Dust			
Toxaphene .....	20.00	20.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Woolfolk Chemical Works, Ltd.</b>			
20% Toxaphene Dust			
Toxaphene	20.00	19.14	Passed
do	20.00	20.00	Passed
<b>TOXAPHENE - PARATHION</b>			
<b>Southern Agricultural Insecticides, Inc.</b>			
Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene	10.00	10.00	Deficient
Parathion	1.50	1.27	
Toxaphene	10.00	10.57	Passed
Parathion	1.50	1.82	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.74	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.76	
Toxaphene	10.00	10.79	Passed
Parathion	1.50	1.66	
Toxaphene	10.00	10.36	Passed
Parathion	1.50	1.64	
Toxaphene	10.00	10.14	Passed
Parathion	1.50	1.84	
Toxaphene	10.00	10.14	Passed
Parathion	1.50	1.80	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.78	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	2.09	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	1.68	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.58	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.72	
Toxaphene	10.00	10.79	Passed
Parathion	1.50	1.56	
Toxaphene	10.00	10.22	Passed
Parathion	1.50	1.56	
Toxaphene	10.00	10.86	Passed
Parathion	1.50	1.73	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>TOXAPHENE - SULFUR</b>			
<b>Olin Mathieson Chemical Corp.</b>			
Toxaphene Sulfur Dust (20% Toxaphene—40% Sulfur)			
Toxaphene	20.00	20.57	Passed
Sulfur	40.00	41.70	
<b>Planters Chemical Corp.</b>			
Planters 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.29	Passed
Sulfur	40.00	38.98	
<b>Woolfolk Chemical Works, Ltd.</b>			
20-40 Cotton Dust (Toxaphene-Sulfur)			
Toxaphene	20.00	21.15	Passed
Sulfur	40.00	39.80	
<b>WARFARIN</b>			
<b>Atlas Chemical Company</b>			
Atlas Anti-Rat & Mouse Killer			
Warfarin	0.025	0.028	Passed
<b>Black Panther Company, Inc.</b>			
Black Panther Bait Box Rat & Mouse Killer			
Warfarin	0.025	0.035	Passed
<b>Blue Ball Chemical Company</b>			
Blue Ball Dethsure Brand Warfarin			
Warfarin	0.025	0.035	Passed
<b>Boyle-Midway, Inc.</b>			
Black Flag Warfarin Rat & Mouse Killer			
Warfarin	0.025	0.031	Passed
<b>Carolina Feed Store</b>			
Carolina's Rat Bait			
Warfarin	0.025	0.027	Passed
<b>Colonial Chemical Company</b>			
Colonial-42			
Warfarin	0.025	0.031	Passed
do	0.025	0.037	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Chemical Company</b>			
Nok-Out Warfarin			
Warfarin .....	0.025	0.039	Passed
do .....	0.025	0.030	Passed
do .....	0.025	0.034	Passed
<b>The d-Con Company, Inc.</b>			
d-Con Mouse-Prufe			
Warfarin (Sodium salt of) .....	0.025	0.026	Passed
d-Con Warficide (Water soluble)			
Warfarin (Sodium salt of) .....	0.54	0.54	Passed
<b>WARFARIN - PIVAL</b>			
<b>Dr. Hess &amp; Clark</b>			
Dr. Hess 2 way Rat & Mouse Killer			
Warfarin .....	0.025	0.029	Passed
Pival .....	0.14	0.16	
<b>ZINEB</b>			
<b>California Spray-Chemical Corp.</b>			
Ortho Zineb 6.5 Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	7.62	Passed
Ortho Zineb Wettable (Contains 65% Zineb)			
Zinc ethylene bisdithiocarbamate .....	65.00	77.75	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	8.10	Passed
do .....	6.50	8.13	Passed
do .....	6.50	9.08	Passed
do .....	6.50	8.10	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 6.5% Zineb Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	7.81	Passed
do .....	6.50	8.13	Passed
do .....	6.50	7.87	Passed
do .....	6.50	8.20	Passed
do .....	6.50	7.91	Passed
do .....	6.50	7.72	Passed
do .....	6.50	7.71	Passed
do .....	6.50	8.01	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Graham Chemical Company</b>			
Graham's Red Star 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	8.10	Passed
<b>Maxwell Insecticide Company</b>			
Maxwell 10% "Dithane" Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	8.01	Passed
do .....	6.50	8.01	Passed
do .....	6.50	7.71	Passed
do .....	6.50	8.10	Passed
<b>Olin Mathieson Chemical Corp.</b>			
10% Dithane			
Zinc ethylene bisdithiocarbamate .....	6.50	7.91	Passed
do .....	6.50	8.20	Passed
do .....	6.50	8.01	Passed
do .....	6.50	7.91	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco Dithane Dust (Contains 10% Dithane Z-78)			
Zinc ethylene bisdithiocarbamate .....	6.50	7.81	Passed
do .....	6.50	8.10	Passed
do .....	6.50	8.10	Passed
<b>Quality Chemical Corp.</b>			
10% Dithane Z-78 Dust			
Zinc ethylene bisdithiocarbamate .....	6.50	8.11	Passed
do .....	6.50	8.10	Passed
do .....	6.50	7.03	Passed
do .....	6.50	7.81	Passed
<b>MISCELLANEOUS INORGANIC</b>			
<b>P. F. Harris Manufacturing Company</b>			
Harris Farmers Roach Tablets			
Boric acid .....	40.00	46.02	Passed
<b>Mahaffey Company</b>			
Mahaffey's Roach Powder			
Sodium tetraborate decahydrate .....	60.00	77.87	Passed
Calcium sulfate hemihydrate .....	15.00	22.52	
<b>American Cyanamid Company</b>			
Cyanogas, Kills Ants			
Calcium cyanide .....	42.00	42.39	Passed
do .....	42.00	42.74	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Tobacco By-Products &amp; Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf Lime Sulfur Spray			
Calcium polysulfides .....	26.00	28.06	Passed
<b>Liquid Veneer Corp. (Now: Nip-Co Manufacturing, Inc.)</b>			
Rat Nip			
Phosphorus .....	1.10	1.57	Passed
<b>Stearn's Electric Paste Company</b>			
Stearn's Electric Brand Rat and Roach Paste			
Phosphorus .....	3.00	3.43	Passed
<b>Nott Manufacturing Company</b>			
Crab-Not Crab Grass Killer			
Potassium cyanate .....	86.00	83.20	Passed
<b>Swift and Company</b>			
End-O-Weed Crab Grass Killer			
Potassium cyanate .....	60.00	34.50	Deficient
<b>Chipman Chemical Company, Inc.</b>			
Atlacide			
Sodium chlorate .....	58.00	59.90	Passed
do .....	58.00	56.92	Passed
<b>O. E. Linck Company, Inc.</b>			
Mo-Go-Kills Moles and Gophers			
Thallium sulfate .....	1.00	0.91	Passed
do .....	1.00	0.99	Passed
<b>MISCELLANEOUS - ORGANIC</b>			
<b>Allied Drug Products Company</b>			
Allied 2% Antu Brown Rat Poison			
Alpha naphthyl thiourea .....	20.00	20.05	Passed
<b>Pearson and Company</b>			
Pearson's 5% Nema-kill			
1-2 dibromo-3 chloro propane-related brominated and/or chlorinated C <sub>3</sub> Hydrocarbons .....	4.95	4.99	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Chemagro Corp.</b>			
Dipterex Sugar Bait Fly Killer			
0,0-dimethyl-1-hydroxy 2,2,2-trichloroethyl phosphonate .....	1.00	1.13	Passed
<b>Pittsburg Coke and Chemical Company</b>			
Fly Charmer			
0,0-dimethyl-1-hydroxy 2,2,2-trichloro ethyl phosphonate .....	2.00	1.92	Passed
<b>The Dow Chemical Company</b>			
Dowfume W-85			
Ethylene dibromide .....	83.00	82.14	Passed
<b>E. I. du Pont de Nemours and Company</b>			
Du Pont E P N (300) Insecticide			
Ethyl P-nitrophenyl thionobenzene-phosphate .....	25.00	27.40	Passed
<b>The Sterling Company</b>			
Miracle Moth Balls			
Naphthalene .....	100.00	100.00	Passed
<b>Tobacco By-Products &amp; Chemical Corp. (Now: Diamond Black Leaf Company)</b>			
Black Leaf 40			
Nicotine as alkaloid .....	40.00	40.75	Passed
<b>California Spray-Chemical Corp.</b>			
Ortho Volck Oil Spray			
Petroleum oils .....	97.00	97.27	Passed
<b>O. M. Scott and Sons Company</b>			
Schult			
Phenylmercuric acetate .....	0.74	0.70	Passed
<b>W. G. Reardon Laboratories, Inc.</b>			
Mouse Seed			
Strychnine .....	0.40	0.45	Passed
<b>American Chemical Paint Company</b>			
Rootone with Fungicide			
Tetramethylthiuram disulfide .....	12.50	12.25	Passed
<b>Du Pont Semesan Company, Inc.</b>			
Du Pont Arasan Seed Disinfectant			
Tetramethylthiuram disulfide .....	50.00	47.84	Passed









